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(CARVED WALNUT FRAME. HIGH ART FINISH)

FOR

ELLIMAN'S (HUMAN USE) EMBROCATION

Free in Great Britain and Ireland, but only to those who promise a good exhibit.



This Electro is a facsimile of our New Showcard for Elliman's Universal (Human use) Embrocation, particulars above.

Elliman's Universal Embrocation, 1s. 1½d., 2s. 9d., and 4s.

CUTTING

ELLIMAN'S UNIVERSAL EMBROCATION

For Human Use under 1/ and 2 4, and

ELLIMAN'S ROYAL EMBROCATION

For Horses, Cattle, and Dogs under 1/9, 2/2, and 3/

Can only be done by signing an agreement not to do so and then breaking faith, or by a Wholesaler supplying ELLIMAN'S EMBROCATION without first requiring an agreement to be signed, as all Wholesalers are pledged to secure agreements from every purchaser not to sell retail under the above prices. Information respecting prices must be supported by evidence—viz., a receipted bill.

Address—ELLIMAN, SONS & CO., SLOUGH, ENGLAND.

A FEW WORDS TO CHEMISTS.

ALTHOUGH a large number of Chemists in all parts of the world Stock our Coffee Essences, yet, we believe, the number would be trebled if certain facts respecting them were more widely known.

We ourselves select only the Best Coffees; we roast, blend, and extract their entire soluble constituents, including the Caffeine, by our own invented processes, and we devote the whole of our time and our extensive Works to the manufacture of Coffee Essences only.

Our goods go well with all other proprietary articles.

Our Pure Coffee Essence is much used for flavouring purposes; also by Invalids, who, owing to its freedom from irritating grounds, are enabled to safely enjoy this refreshing and stimulating beverage. It is likewise largely used by those who prefer their Coffee unmixed with Chicory. The Coffee and Chicory Essence is in general use throughout the world as a breakfast beverage, and for Balls, Suppers, Picnics, Garden Parties, &c., &c. Our Dandelion Coffee Essence is largely used by those lovers of Coffee with whom the ordinary beverage disagrees, this Essence combining the medicinal virtues of fine English Taraxacum with the refreshing and dietetic properties of Coffee.

There are a number of so-called Coffee Essences put up by makers of or dealers in various other articles, some of whom claim to be the oldest makers, some to be the newest makers, and others to be the sole inventors of square-shaped (Coffee Essence) bottles. *All their goods are offered under our List Prices* and on examination and comparison with ours will, no doubt, have two short and expressive adjectives applied to them. Some of these people do not make Coffee Essence.

As previously stated, we are expert Coffee tasters and roasters as well as practical Chemists, and have for twenty years made Coffee Essences our study—continually improving and perfecting them. A square-shaped bottle has been made by various bottle manufacturers for more than half a century. The oldest Coffee Essence manufacturers (now devoting themselves to another article) are an English firm whose advertisement we possess, dated nearly fifty years ago.

TO SUM UP.

You will find it pay you to take up the sale of Coffee Essences, and the only ones that will give you and your customers entire satisfaction are those of

THOS. SYMINGTON & CO.

Beaverbank,
EDINBURGH.

61 Leadenhall Street,
LONDON.

SEND FOR PRICE LIST.

Prize Competition

We have decided to offer for competition a Prize of

Ten Guineas

for the best Specimens of the following

SIX MIXTURES

for the relief of common ailments, prepared from

Fletchers' Concentrated Liquors

- | | |
|-------------------------|----------------------------|
| 1. A COUGH MIXTURE. | 4. AN INDIGESTION MIXTURE. |
| 2. A DIARRHŒA MIXTURE. | 5. A LIVER MIXTURE. |
| 3. A FEBRIFUGE MIXTURE. | 6. A TONIC MIXTURE. |

The Editor of "The Chemist and Druggist" has kindly consented to nominate an experienced Pharmacist and a Member of the Medical Profession, who will act as Adjudicators.

COMPETITORS MUST COMPLY WITH THE FOLLOWING RULES:—

1. A two-ounce specimen of each Mixture, together with the formula of same, must be forwarded, *securely packed and carriage paid*, before the 31st August, addressed as follows:—"FLETCHERS' CONCENTRATED LIQUORS—Prize Competition. The Adjudicators, c/o The Editor, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C."
2. No Mixture must contain more than two ingredients other than our CONCENTRATED LIQUORS or CONCENTRATED WATERS, and Aq. Dest.
3. The CONCENTRATED LIQUORS and WATERS which may be used in this competition are those described in the last edition of "Memorabilia," together with the additions enumerated on the opposite page.
4. The dose of any Mixture must not be less than one fluid drachm, nor more than four fluid drachms.
5. Each competitor must attach a *nom de plume* to his formulæ and specimens, but his name and address must NOT appear thereon, nor upon any portion of the package or its contents.
6. On the same day that the specimens are forwarded a letter must be posted to us giving the real name and address of the competitor, together with his *nom de plume*, and enclosing Invoice of the CONCENTRATED LIQUORS used in the competition.
7. Competitors may send in one or more of the Six Mixtures, and the judges will select the BEST MIXTURE IN EACH CLASS. They will have entire discretion in the allotment or division of the prize.
8. The result of the competition will be announced in "The Chemist and Druggist" as soon as the judges have made their award.
9. We reserve the right to make use of any formulæ submitted. Competitors should aim at producing Mixtures which are EFFICACIOUS, ELEGANT, AGREEABLE, and INEXPENSIVE.

Fletcher, Fletcher & Stevenson, Manufacturing Chemists.

Offices: 21 Mincing Lane, E.C.

Works: Holloway, London, N.

AN INUNDATION.

MESSRS. POTTER & CLARKE

Have pleasure in stating that, though inundated with orders for their 4d. CORN PAINT (Winged Lion Brand), they have been able to supply all demands up to the present, and are now making special arrangements to execute all orders on day of receipt.

Customers from all parts are writing expressing their delight at the rapidity of its sale, and of the satisfaction it gives to their clients. One writes: "The sale has been great and beyond all expectation."

Chemists wishing to give this article a trial can do so by ordering 1 dozen, the price for which is 2/8. It is packed in Actinic Green, Boxwood-top Bottles, with Brush, and mounted on a tastefully-designed card.

POTTER & CLARKE,

5, 6, AND 7 RAVEN ROW,

ARTILLERY LANE, E.

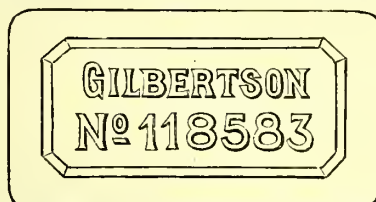
MANCHESTER DEPOT: 54 GREAT ANCOATS STREET.

GILBERTSON'S DISPENSING BOTTLES

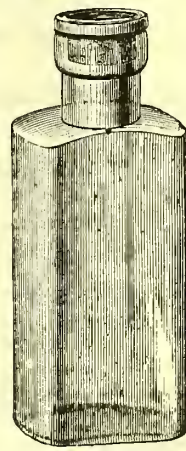
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ARE NOW IN UNIVERSAL DEMAND OWING TO THEIR IMPROVED SHAPE.

They are made with rounded corners without altering their flat surfaces, which not only adds to their appearance, but reduces breakage to a minimum, ensuring accurate capacity, simplifying labelling, and producing a perfect appearance when wrapped.

GILBERTSON'S
DISPENSING.

FACSIMILE OF BOTTOM OF BOTTLES.

GILBERTSON'S
IMPROVED SALINE.

Extract from "C. & D.," 27th July, 1889.

MESSRS. H. GILBERTSON & SONS, of 11 St. Andrew's Street, Holborn Circus, have recently introduced a Dispensing Bottle which is sure to be a favourite. It is an ordinary "flat" with rounded edges, shown here in section. The bottle, being well made and nicely tinted, has a beautiful appearance, and is also much stronger than the "flats" with corners, so that the liability to breakage is reduced.

The success our Bottles have met with since we introduced them in the year 1889 (see extract from "Chemist and Druggist," 27th July, 1889, page 130) has caused many similar shaped bottles to be placed on the market, and which are offered under such titles as—

"NEW TINTED OLDHAM FLATS" (with rounded edges),
"OUR NEW DISPENSING FLATS,"
"FLATS WITH ROUNDED CORNERS," &c., &c.

WHEREAS—H. G. & SONS beg to notify the trade that their original *BEST QUALITY* can only be obtained with their name and number on the bottom of each bottle, which is a guarantee of superior quality and uniform excellence.

N.B.—All sizes and graduations supplied, either in Medical Blue Tint or White Flint, from stock in London, on receipt of orders. Also in Crates, direct from Works, Ten Days afterwards. Crates and Carriage Free.

These Bottles are supplied with Flat, Globe, or Cut Globe Stoppers; also made in Actinic Green and Amber, suitable for Specialities.

Casks for EXPORT are charged, but delivered F.O.B. Name Plates extra, at usual rates.

Special Quotations to Shippers and the Wholesale Trade.

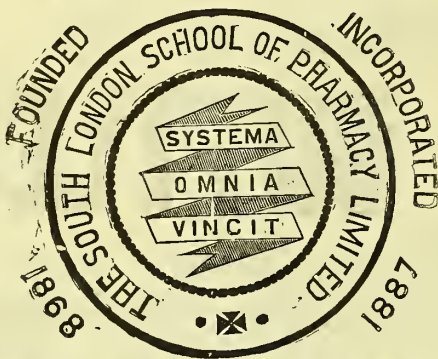
Illustrated Price List sent on application.

SOLE WHOLESALE DEPOT FOR "ELTON'S UNG. EMOLLIENS ANTISEPTICUM."

Manufacturers and Sole Wholesale Agents of "CAVE'S SPLINT CURE."

11 ST. ANDREW'S STREET, HOLBORN CIRCUS, LONDON.

Telegraphic Address—"FRANGIPANI LONDON."



325 KENNINGTON ROAD, S.E.

LECTURERS—

Chemistry, Physics, and Botany.

DR. MUTER, F.R.S.E., F.I.C., F.O.S.

Materia Medica and Pharmacy.

MR. DODD, F.C.S.

Analytical Chemistry.

MR. DE KONINGH, F.I.C., F.C.S.

Classics, and Mathematics and Mechanics.

MR. TOWNSEND, A.C.P. and London Mat.

Assisted by an efficient staff of Demonstrators.

The fees at this School are absolutely inclusive, and there are no extras of any kind. The Directors spare no expense in rendering the education thoroughly efficient and in maintaining the very high percentage of success uniformly obtained by the students for the last 20 years. The Dispensing department is most commodious and perfect, and no extra charge is made for its use.

The new Laboratory for practical instruction in Manufacturing Pharmacy is now in full work.

The School being usually full, intending students should secure their places beforehand.

For syllabus, &c., apply by letter addressed to the Secretary.

SHEFFIELD COLLEGE OF PHARMACY.

Principals: Messrs. GREAVES & TURNER.

At the Examinations in Edinburgh, 6 students sent in, 4 passed:—

Mr. H. Ashby Belbin, Sheffield.

Mr. A. J. Lee, Mexborough.

Mr. F. Helsby, Liverpool.

Mr. Spencer, Batley.

The Short Course for the October Examination commences August 29. Fee, £4 10s.

The next Full Course for the January Examination on October 4. Fee, £8 8s.

All Fees Inclusive.

PROSPECTUS & PARTICULARS FREE ON APPLICATION TO

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ROYAL (DICK'S) VETERINARY COLLEGE EDINBURGH.

Trustees—THE LORD PROVOST, MAGISTRATES, AND COUNCIL OF THE CITY OF EDINBURGH.

The 70th SESSION BEGINS on OCTOBER 5, 1892.

For particulars apply

Professor WALLEY, Principal.

JUST PUBLISHED. 200 pp., Crown 8vo. 3s. 6d.

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A Manual of the Diagnosis and Modern Treatment of the different varieties of Dyspepsia.

By GEO. HERSCHELL, M.D., LOND.

"Any work of this character must stand comparison with a number of able monographs either in English, French, or German. We think Dr. Herschell's book will compare favourably with any of these."—*Therapeutic Gazette*, Jan., 1892.

London: BAILLIÈRE, TINDALL & COX.

WESTMINSTER COLLEGE

TRINITY SQUARE, BOROUGH, LONDON, S.E.

PRINCIPALS—MESSRS. WILLS & WOOTTON.

The largest and most Successful Pharmaceutical School in Great Britain.

The next Course of Lectures, &c., will be commenced on August 2. Fee until the October Exam., £8 8s.; January £12 12s.; until qualified, £15 15s. This fee includes all books, apparatus, &c., there being no extras of any kind.

PRELIMINARY.—3 months, £3 3s.; Until passed £5 5s.

EVENING CLASSES

For the Pharmaceutical Exams. are held every Tuesday, Wednesday, and Thursday, 7 till 9.

FEES:—3 months	MAJOR	£1 11 6
	MINOR	1 1 0
	PRELIMINARY	0 15 0

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WILLS' UNIVERSAL POSTAL SYSTEM.

APPRENTICES are advised to enter for a two or three years' course, and thus form a good foundation of knowledge.

"Those who cannot attend a school of pharmacy will find 'Wills' Universal Postal System' train them in a way they should go."—*Chemist and Druggist*.

"Mr. Wills, of Westminster College, one of our most thoroughly successful tutors, extends him a helping hand, leaving it simply his own fault, and deserving it, if he blindly labours on in ignorant darkness."—*Magazine of Chemistry*.

For full particulars apply to **E. WALDEN, Secretary.**

ESTABLISHED
1882.



INCORPORATED
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THE "ECONOMIC SERIES"

Of Twelve Botanical Slides, illustrating the Arrangement of the Elementary Tissues.

Specially arranged for the use of Students in Botany and Materia Medica, and designed for instruction and reference. Each Slide is marked with its characteristic feature, so that the Student may know what to look for in his histological practice.

10s. 6d. the Set in Case complete. Free by Post.

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LONDON HOMOEOPATHIC HOSPITAL AND MEDICAL SCHOOL, GREAT ORMOND STREET, BLOOMSBURY W.C.

President—THE LORD Ebury.

Contains 90 Beds, and being entirely supported by Voluntary Contributions, Donations and Annual Subscriptions are earnestly solicited. The Hospital is always open to the inspection of visitors, and Clinical Instruction is given in the Wards and Out-patient Department to Medical Students and Practitioners. It possesses a valuable Library of Homoeopathic Publications, which Medical Men are invited to study. They are also invited to visit the Dispensary. The In-patients number over 700 annually; the Out-patients nearly 9,000 annually. The number of Patients treated since the inauguration in 1849 exceeds 215,000. It has a staff of 42 Nurses for Ward Nursing and Nursing Invalids at their residences.

G. A. CROSS, Secretary-Superintendent.

UNIVERSITY OF GLASGOW

SESSION 1892-93.

[The Classes for Women in Medicine and Arts are conducted in a separate building (Queen Margaret College), and are taught by Professors of the University and other Lecturers appointed by the University Court. For details see separate advertisement.]

THE MEDICAL SESSION will be opened with an Introductory Address by Professor CLELAND, M.D., LL.D., D.Sc., F.R.S., on TUESDAY, OCTOBER 18, 1892.

WINTER COURSES.

Zoology, 9 a.m.; and Zoological Laboratory, 10 a.m. to 1 p.m.—Professor Young, M.D.

Botanical Laboratory (January, February, March), 10 a.m.

—Professor Bower, M.A. Cantab., D.Sc., F.R.S.

Clinical Medicine, 9 a.m.—Professor M'Call Anderson, M.D., and Professor Gairdner, M.D., LL.D.

Clinical Surgery, 9 a.m.—Prof. George Buchanan, M.A., M.D., LL.D., and Prof. Sir George H. B. Macleod, M.D., LL.D.

Chemistry, 10 a.m.; and Chemical Laboratory, 10 a.m. to 4 p.m.—Professor Ferguson, M.A., LL.D., F.S.A.

Anatomy: Senior, 11 a.m.; Junior, 2 p.m.; and Practical Anatomy, 9 a.m. to 4.45 p.m.—Professor Cleland, M.D., LL.D., D.Sc., F.R.S., assisted by J. Yule Mackay, M.D., and other Demonstrators.

Practice of Medicine, 11 a.m.—Prof. Gairdner, M.D., LL.D.

Materia Medica, 12 noon, and Pharmaceutical Laboratory.

—Prof. Charteris, M.D., assisted by William MacLennan, M.B.

Institutes of Medicine, 12 noon, and Physiological Laboratory, 10 a.m. to 4 p.m.—Professor M'Kendrick, M.D., LL.D., F.R.S., assisted by William Snodgrass, M.A., M.B., the Muirhead Demonstrator.

Surgery, 1 p.m.—Prof. Sir Geo. H. B. Macleod, M.D., LL.D.

Midwifery, 2 p.m.—Professor Leishman, M.D.

Pathology (Mon., Wed., Fri.), 3 p.m.—Lecturer, Joseph Coats, M.D.

SUMMER SESSION, 1893.

During the Summer Session, which opens on April 24, the Courses of Botany, Practical Chemistry, Physics (The Lord Kelvin, P.R.S., and Magnus Maclean, M.A., F.R.S.E.), Medical Jurisprudence (Professor Simpson), and Clinical Medicine and Clinical Surgery are given. There are also Courses of Anatomy (Lectures on Embryology), Practical Anatomy, Zoology, Practical Zoology, Vegetable Histology, and Practical Botany, Practical Physiology (including Histology), Practical Materia Medica, Practice of Medicine, Practical Pathological Histology, Practical Pathology, Operative Surgery, and Lectures on Diseases of Women.

Diseases of the Eye.—Thomas Reid, M.D., Waltonian Lecturer (Summer Course).

Insanity.—David Yellowlees, M.D., LL.D., Royal Asylum, Gartnavel (Summer Course).

WESTERN INFIRMARY.—This Hospital, near the University, contains 400 beds for Medical and Surgical Patients, also Wards for Skin Diseases, and one for Diseases peculiar to Females.

DEGREES.—Four Medical Degrees are conferred under the new regulations, viz.: Bachelor of Medicine (M.B.) and Bachelor of Surgery (Ch.B.), which must be taken together; Doctor of Medicine (M.D.) and Master of Surgery (Ch.M.); all of which are recognised by the Medical Act as qualifying for practice throughout the British Dominions.

FEES.—The Fee for each class is £3 3s. The Fee for M.B. and Ch.B. is £23 2s.; for M.D. £20 13s. (including stamp duty); and for Ch.M. £10 10s.

BURSARIES.—Bursaries to the annual amount of £530 are restricted to medical students, whilst scholarships and fellowships to the amount of upwards of £1,600 may be held by medical students who have gone through the Arts Course.

Full particulars as to the course of education and examination required for the Degrees, and the Preliminary Examination required to be passed by Students before beginning medical study, will be found in the University Calendar (by post, 3s. 6d.); or a Syllabus of the regulations, fees, &c., may be obtained by applying to Mr. W. INNES ADDISON, Assistant Clerk.

NORTHERN SCHOOL OF PHARMACY,

100 BURLINGTON ST., MANCHESTER.

Principal—Mr. GEORGE CLAYTON, Ph.C.

At the recent July Examinations 26 gentlemen entered from the "Northern," 18 passed, namely:—

MAJOR.

Mr. F. Lawson Workington

MINOR.

Mr. J. Austen Sheffield
 „ D. Bowlas Blackpool
 „ W. Barritt Bolton
 „ W. H. Broadbent Ollerton
 „ J. Cunliffe Accrington
 „ A. W. Harrison Pendleton
 „ C. H. Hewitt Sheffield
 „ A. W. Hick... .. Manchester
 „ J. W. Moorhouse Barnsley
 „ W. Rigby Barnsley
 „ F. Scanlon Macclesfield
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 „ H. Smith Manchester
 „ J. Stelfox Sale
 „ W. Thorpe Glossop
 „ R. H. Tootill Bury
 „ J. J. Wilson Manchester

Nearly all at their first attempt.

During the last twelve months—July, 1891, until July, 1892—SEVENTY-THREE gentlemen have qualified from the NORTHERN SCHOOL, 10 of these being Majors. These results furnish highly satisfactory proofs of the soundness and efficiency of the course of work pursued at the "NORTHERN."

The next Session will commence on WEDNESDAY, AUGUST 31, and comprises Full-time, Afternoon, and Evening Courses for both Minor and Major. The Full-time Major Class is full until October, when there will be a few vacancies. There are still three or four vacancies in the Minor Classes.

PROSPECTUS POSTED ON APPLICATION TO
THE PRINCIPAL.

THE "STIPENDUM" STOPPER CO., LIM.

47 LAMB'S CONDUIT STREET, LONDON, W.C.,

Manufacture the following Specialities—

- "STIPENDUM" CORK STOPPERS, in all sizes.
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- "STIPENDUM" SCREW CAPS, for Pomade Bottles.
- "STIPENDUM" OPENERS, for Stoppered Aërated Water Bottles.

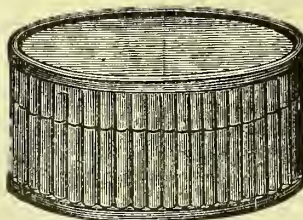
"STIPENDUM" GREASE-PROOF COVERED POTS IN TERRA COTTA, CHOCOLATE, AND BLACK.

The Grease-Proof Covered Pots have perfectly fitting lids, are practically unbreakable, and the only article really answering the purpose intended.

The following Analytical Report should be noted by the trade:—

London, January 5, 1891.

"We have examined the two covered pots marked November 21, 1890, one containing strong nitrate of mercury ointment, and the other iodine ointment, the object being to discover—(1) Whether the ingredients of which the pots are composed have in any way affected the ointments; (2) Whether the pots have been deteriorated by the action of the ointments.



We hereby certify that no trace of any of the ingredients of the pot can be discovered in either of the ointments, and further that the pots themselves were found not to have been acted on at all; and we further consider 'Stipendum' admirably adapted for such pharmaceutical preparations.

Signed, C. T. KINGZETT, F.I.C., F.O.S.

(Ex Vice-President Society of Public Analysts)

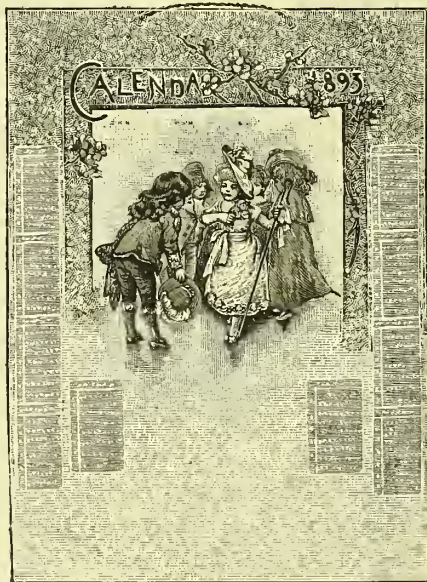
R. H. HARLAND, F.I.C. F.O.S.

(Public Analyst)."

To be had of all Druggists' Sundriesmen.

Wholesale only of the Company.

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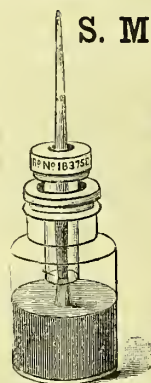
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Daily and Monthly Tear-off Calendars, Perpetual Calendars, Show Cards, &c., in great variety.

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10

BLOTTERS, CIRCULARS, &c.



S. MAW, SON & THOMPSON'S No. 11

GUM BOTTLE

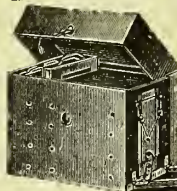
(REGISTERED NUMBER 183753),

Fitted with Brush complete.

IN ½ DOZ. N AND 1 DOZEN BOXES,
8/- PER DOZEN.

S. MAW, SON & THOMPSON, LONDON.

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FOR DISPOSAL

Literature.

A lot of old medical and pharmaceutical books: Dispensatories (Quincey's, Lewis's), Pharmacopias (Phillips', &c.): old volumes of *Chemist and Druggist*, bound: 44 vols. *Pharmaceutical Journal*, from 1811 to 1835, well bound, and in good condition: 2) vols. "Year-Book of Pharmacy," from 1870. Write for list to F. R. M., Medical Hall, Yeovil.

Educational.

"The Royal Pharmacopoeia, Galenical and Chymical," by Moses Charis, date 1678: splendid condition: what offers? Also two human skulls. Witchell, 31 Grove Street, Derby.

Binocular microscope by Beck; three pairs of eye-pieces, 3-in., 2-in., 1-in., $\frac{1}{2}$ -in., $\frac{1}{4}$ -in. object-glasses; stage with mechanical movements and all necessary apparatus, lamp, cabinet, and valuable collection of slides, cost about 50*l.* price 25*l.*; will be sent on approval. 110/24, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

New, post free anywhere at one-half these, the published prices:—Boileau's "Manual Technical Analysis," by Dr. Paul, 5*s.*; Bowdler Sharpe's "Birds in Nature," coloured plates, 63*s.*; Liebig's "Modern Agriculture," 6*s.*; Brown's "Fossil Conchology of Great Britain," 3,500 figures, 63*s.*; Prof. Rymer Jones' "Natural History of Animals," 209 illustrations, 2 vols., 24*s.*; Mayhew's illustrated "Horse Management," 15*s.*; London's "Encyclopedia of Shrubs," 3,000 illustrations, 25*s.*; Boulger's "Economic Botany," 6*s.*; Bettany's "Eminent Doctors," 2 vols., 21*s.*; Dr. Crespiigny's "Flora Metropolitan Districts," 5*s.* Second-hand, free:—Bentley & Redwood's "Pereira's Materia Medica" (24*s.*), 10*s.* 6*d.*; Lyell's "Geology" (1*l.*), 6*s.* 6*d.*; Nicholson's "Manual of Zoology" (1*l.*), 5*s.* Wanted, books on natural history and botany. 11 Woodwell Crescent, St. George's Road, Bristol.

Shop Fittings.

Showcases, window-carboys, shop-rounds for sale. Gatward & Wright, The Medical Hall, Yeovil.

Counters with plate-glass fronts and mahogany tops: one, 12 ft. long, 10*l.*; another 6 ft. long, 5*l.* Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Dispensing-screens, 3 for sale, with mirror centres: 5, 5 ft. 6 in. by 6 ft. long price 6*l.* 10*s.* each. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

Drawers, 12 ft. run, mahogany, with bevelled-edge glass labels and cut glass knobs, lockers under, and shelving, with cornice and pilasters over: price 15*l.* Philip Josephs, 54 Old St., Goswell Rd., London, E.C.

Glass wall-cases: 3 for sale, very cheap: 10, 8, and 6 ft. long: prices 14*l.*, 10*l.*, and 8*l.*; also counter-case, bent glass, 8 ft. long 7*l.*; another, 6 ft. long, 5*l.* 10*s.*: and several other cases. Philip Josephs, 54 Old Street, Goswell Road, London, E.C.

20-ft. run second hand mahogany-fronted drawers, glass labels and knobs, bottle-lockers under, shelving and cornice over: 50 dozen gold-labelled shop-rounds, 8 to 40 oz.; 8 4-gall. globe-shape carboys, 7*s.* each. Note the address, Elkanah Natali, 242 Old Street (12 doors from City Road), London, E.C.

All new.—Mahogany desks and glass cases 2 ft. 3 in. wide, 2 ft. 2 in. deep, 2 ft. high, 1*l.* 15*s.*; glass case uprights, 5 ft. 6 in. long, to form dispensing-screen, 2*l.* 10*s.*; counter-case, 3 ft. by 1 ft. 6 in., shelf, bent plate glass, mirror, and trays, 2*l.* 10*s.*; revolving toothbrush-case 2*l.* 5*s.*; counter-case, ebonyised, 4 ft. by 2 ft. by 9 in. high, trays, 3*l.*; marble-top table, 24 in. by 20 in., on mahogany pillar and plinth, 1*l.* 7*s.* 6*d.*; a 6-ft. nest of drug-drawers, lockers, mahogany top, 3*l.* 6*s.*; 3 12-gall. carboys, each 1*l.* 10*s.*; 1 16-gall. carboy, 1*l.* 10*s.* W. Hawke & Son, Shop-fitters, Wild Court, Great Wild Street, London.

9 ft. mahogany and plate-glass piano-shaped wall-case, as Maw's fig. A83 (old list, 1882), in splendid condition, bargain; 12-ft. run solid walnut-fronted drawers, bevelled-edge glass labels (recess pattern) and mirror-fronted glass knobs, bottle-lockers under, shelving and pilasters, with mirror-fronted poison-cupboard in centre, curved corners and trusses surmounted with bold cornice, very massive, bargain; 12-ft. plate-glass and walnut-fronted counter, with solid top, and fitted inside with movable shelves: a 9 ft. mahogany ditto, ditto; 10-ft. 6 solid mahogany panelled-fronted counter, moulded and trusses, 6*l.* 6*s.*; 8 ft. bent plate-glass counter-case, as Maw's fig. 5 (new list, '91), 6*l.* 10*s.*; bent plate-glass toothbrush-case, velvet lined tray inside, and plate-glass shelves, 30*s.*; bevelled-front ditto desks and cases, in good condition, from 40*s.*; plate-glass show-stands, as fig. 4*a.*; ditto, ditto, 3-ft. 6 long, as fig. 5; mirrors, glass shelves, window-fittings. Elkanah Natali, 242 Old Street (12 doors from City Rd.), London, E.C.

Pair bent-glass mahogany cases, 2½ ft. by 8 in.; nest mahogany drawers, new, 6 ft. by 2 ft.; pair 3-gal. carboys, mahogany stands, pine window-enclosure, 8 ft. by 2½; pair oak chairs; 12, the lot. "Statim," Medical Hall, Cooper's Arms Lane, Putney, S.W.

Four large pear-shaped globes with cut stoppers; 4 specie-jars, gilt dome tops, height 21 in., perfect: 111 W.M. bottles (various sizes): 153 N.M. bottles (various sizes), gold labelled, in excellent condition; 3 doz. blue ointment jars (large and small), gold-labelled. Heely, 115 Kennington Road, S.E. Second-hand mahogany-top counter, plate-glass cases in front, 7 ft. long, equal to new, 6*l.*; dispensing-screen for same, marble slab and mirror centre, 7*l.*; wall-fitting, with 100 mahogany-front drawers 10*l.*; several wall-cases, carboys, and ointment-jars; set of 3 glass shelves, shaped and polished edges, 50*s.*; and 300 (assorted size) shop-rounds, gold-labelled, superior 9*s.* per doz. Natali, 40 Gray's Inn Road, Holborn, London, W.C.

Miscellaneous.

A few very large bath honeycomb sponges, finest quality; cheap. "Celandine," Hereford. Gasometer, large, handsome. 2*s.* G., 1 Carisbrook Terrace, Old Dover Road, Blackheath, S.E.

Gazogene charges (5 pints); what offers? cash or patents. Particulars, Williams, Chemist, 123 Granby Street, Liverpool.

Under cost, to clear.—About 20 dozen nipple-shields, black seamless teat, bone shield, boxed, 2*s.* 3*d.* dozen; 5 dozen breast-exhausters, black fittings, boxed, 5*s.* dozen; 10 gross small black teats, seamless, 5*s.* 3*d.* gross; 2 gross syringes, in turned wood cases, ½-oz. 2*s.* 3*d.*, ½-oz. 3*s.* 3*d.*; ear-syringes, boxed, ½-oz. 2*s.* 9*d.*, 1-oz. 5*s.* 6*d.*; pill-boxes, drachm, 12 gross, 3*s.* 6*d.*; tooth-stopping, penny squares, wrapped pink paper, 2*s.* gross; sticks 3*d.*, 2*s.* for 3 dozen; glycerine syringes, vulcanite mounts, boxed, 10*s.* doz.; bone shields for feeders, 2*s.* gross; packages free: cash with order, returned in full if sold. Gillman, 89 Camden Street, N.W.

WANTED

Chemist and Druggist, February 22, 1890; give 8*d.* Osborne, Hersham.

12-inch iron or bell-metal mortar, good condition; lowest price. Parrett, Winslow.

Six-ounce and 12-ounce round sauce-bottles, stoppered. Apply, Peace Jones, Chemist, Bournemouth.

Chemist and Druggist, September 20, 1890, and May 20, 1891. Francis, Chemist, Wrexham. Show-jars: several glass jars suitable for displaying poppy-heads, &c.; give dimensions, and price. 115/18, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

NOTICE TO THE TRADE.—REMOVAL.

TIDMAN & SON,

Wholesale, Export, and Manufacturing Perfumers, Manufacturing Chemists, Druggists' Sundriesmen, Patent Medicine Dealers, &c., &c., Proprietors of Tidman's Sea Salt,

HAVE REMOVED TO MORE EXTENSIVE PREMISES AT

BUSHELL STREET, WAPPING, E.,

WHERE ALL COMMUNICATIONS SHOULD BE IN FUTURE ADDRESSED.

On Getting On!!!

Are you in business for fun, or are you in business to make a living? If for the former, where does the fun come in when you handle products that do not pay; and if for the latter, where does the living come in? When one reads the advertisements that appear on soaps, he wonders whether some soap firms really believe, as they appear to, that the chemist has gone clear off his head; for, if they do, we can assure them he has not. One says he protects his article. Goodness gracious! what is the good of protecting what the trade can hardly get rid of for love or money? Another points out that his soap bears the retailer 25 per cent. profit. He has to sell it first, though, doesn't he? But the weakest thing of all is the manufacturer who is continually begging the retailer to sell his article for him. He runs down everybody else's, does not advertise his own except to the trade, and expects the trade to push his article, create a demand for it if possible, and, if not possible, get left with a lot of unsaleable stuff on hand; while instead of this the retailer might all the time have been employing himself in securing his share of the trade in the most popular soap in the market, which is "Vinolia." Do not be deceived by the cheap talk of representatives, do not let this and that traveller tell you what you do or do not want, do not let this or that manufacturer wheedle you into the notion that his is the coming soap when it is nothing of the kind. Time enough for you to stock it when it has become popular. Meanwhile, nothing pays like stocking articles for which there is a good demand, a ready sale, and which bear a fair living profit.

The position we have always taken up is this—supply a good product at a fair price. We have done lately what no soap firm ever did before. We have sent out crucial tests suitable for the laboratory of the scientific analyst, and tests for the housewife in her kitchen. Do you for a moment suppose that we would have ventured to do this if "Vinolia" Soap were not *bona fide*? It is one thing to say a soap is pure, first-class, milled, made from edible fats, charged with delicate scents, but it is an entirely different thing to make it so, and also a different thing to prove it. We give the evidence on which we base our claims, and that evidence of superiority is different from and more logical than anything ever submitted before by any soap manufacturers; and we challenge the scientific analysts to disprove the validity of our claims and the substantiality of our products. So much for the genuineness of "Vinolia" Soap; and the jealous, old-fashioned soap-makers can take their presumption elsewhere.

Now as to our business methods. First of all, we advertise in the leading publications, and in such a way as to effectively reach the reading public of Great Britain. We do not spend all our money in advertising—we arrange for the Trade to get some. We do not ask the retailer to create the demand for us. We create our own demand and ask the Trade to supply the goods. In return for this service we arrange that the cupidity of one shall not be the means of depriving hundreds of our customers of their fair living profit on our goods. If this kind of policy commends itself to your spirit of equity and fairness—if you have got enterprise enough to get along without making a cat's paw of our goods to sell others—then you are the man for us, and we invite your hearty co-operation, and shall be pleased to do what we can to promote our business with you to our mutual profit and advantage. The proportion of our business done by each retailer in "Vinolia" Preparations in any given neighbourhood must naturally be determined by the enterprise he shows. The public will have the goods. The question is: Who will supply them? The answer: He who keeps them to the front.

The retailer who has any "Vinolia" Preparations in stock, which do not move off as fast as he would like, has only to write to us and we will move them off for him. We undertake at all times to take back and exchange unsaleable or shop-worn goods. Please take note that we relieve our friends of all risk.

No line of goods in the English market is put up with the magnificence that ours are; none move off so rapidly, or pay so well all around, or give better satisfaction to the public. What more can you ask? "Vinolia" Soap is the soap of to-day and the soap of the nineteenth century, and others who claim the same for theirs are like parrots repeating our words. See you stock "Vinolia," and secure your share of the business in it. The exhibition of it in your shop will pay you, and pay you well. Send for Showcards, Literature, &c., and let your customers know that you have a full line of our products. Attend to this without delay, for time is money.

Every Tablet of Premier "Vinolia" Soap, even when sold at the minimum cutting price (3½d.), yields a profit of three farthings.

TO EXPORTERS OF MINERAL WATERS.

JEWSBURY & BROWN, MANCHESTER,
specially prepare and pack their unrivalled MINERAL WATERS and
AERATED BEVERAGES for Export, and will have pleasure in quoting
prices and terms delivered free alongside ship at any British port.

Wherever these Waters have been introduced the superiority of quality,
style, and freedom from Leakage and Breakage have secured for the Brand
preference with the consumer, and given every satisfaction to the shippers.

PURE ORANGE WINE

(VINUM AURANTII, B.P.), prepared in strict accordance with the Formula of the British Pharmacopœia.
MOST SUITABLE BASIS FOR QUININE AND OTHER MEDICATED WINES.

CAN BE OBTAINED FROM THE MAKERS—

A. MILLAR & CO., Thomas Street, DUBLIN.
Sole Agents for London and District—**H. J. ROYDANT & CO.,** 75 Acre Lane, Brixton S.W.

SOLIDIFIED SULPHURIC ACID.

A Chemical Compound, containing 72-75 per cent. available concentrated Acid.

Also Hyposulphite of Soda, pure white Sulphate of Alumina, Hydrate and Anhydrous Alumina,
Blanc Fixe, Chloride, Nitrate, Sulphide, and Hydrate of Barium.

SOLE AGENTS:—**JULIUS HULSEN & CO.,** NEWCASTLE-ON-TYNE.

GOLD MEDAL, Amsterdam, 1883. DIPLOMA OF HONOUR, Paris, 1887.

GUÉRET FRÈRES,

MACHINISTS, PATENTEEs,

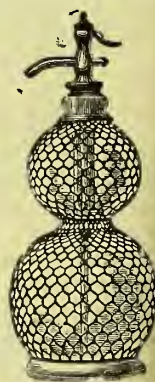
PARIS—72 BOULEVARD DE LA GARE, 72—PARIS.

SYPHONS WITH SHORT LEVER, with Metal Tops of Pure Tin, carefully
mounted, and the glass of the *first quality*.

GAZOSELTZ, for the instantaneous production of Aërated Beverages at table.
Anyone can use them.

"CONTINUOUS PROCESS" Apparatus complete, guaranteed without flaw in
construction, possessing perfect action, and tested to a high pressure, while
fulfilling every desirable condition of sanitation and economy.

OUR GENERAL CATALOGUE AND PRICE LIST WILL BE SENT FREE ON APPLICATION.



Telephone No. 7547.

Telephone No. 7547.

TRADE

"CAMWAL"

MARK.

TOPS THE TRADE

ONLY PRIZE MEDAL,



LONDON, 1881.

RAISED BY THE
PERSISTENT ENERGY
AND GREAT CARE
OF CHEMISTS

Year	No. of Members	Dividend
1878	119	None
1879	250	None
1880	430	None
1881	540	None
1882	616	3½
1883	708	5

TELEGRAPHIC ADDRESSES:

Rubine, London.
Chemists, Starbeck, Harrogate.
Camwal, Bristol.

HIGHEST PRIZE MEDAL,



BRADFORD, 1882

STRENGTHENED AND
SUPPORTED BY THE
APPROBATION OF THE
MEDICAL PROFESSION

Year	No. of Members	Dividend
1884	908	6
1885	1,183	6
1886	1,463	6
1887	1,812	7½
1888	1,892	5
1889	2,061	7½
1890	2,088	8½
1891	2163	10%

TELEGRAPHIC ADDRESSES:

Rubine, London.
Chemists, Starbeck, Harrogate.
Camwal, Bristol.

This Company manufactures the various descriptions of Mineral Waters of the highest class and of specified formula, and supplies **ONLY** Chemists and Hospitals.

PRICES.

		In Corked Bots.	In Syphons.			In Corked Bots.	In Syphons.
Carbonated Water	5 Grains to Half-Pint	1/-	1/8	Lime Juice		1/-	2/6
Soda	B.P. 16	1/-	1/8	Ginger Ale		1/-	2/6
Soda	6	1/-	1/8	Ginger Beer, Glass		1/-	2/6
Petash	B.P. 16	1/-	1/8	Lithia, B.P., 5 grains to Half-pint		1/6	2/6
Petash		1/-	1/8	Iron and Quinine Water		1/6	—
Seltzer		1/-	1/8	Mineral Acid		1/6	—
Lemonade		1/-	2/8				

Syphons, 24. per dozen.

Cases—3 dozen 3s. 6d.; 4 dozen 4s. 6d.; 6 dozen 5s. 6d. each.

Empties allowed for at same prices.

3d. per dozen charged extra for the delivery of Syphons in London.

SYRUPS.

In 26-oz. bottles, handsomely labelled and capsuled. Raspberry, Strawberry, Cherry, Red Currant, Black Currant, Pine Apple, &c., 8/- per dozen. Lime Fruit Cordial, 6/6 per dozen. Bottles charged 1/- per dozen, and allowed for on return.

A holder (Chemist) of £1 share is entitled to all the advantages of this Association.

SAMPLE CASE OF WATERS SENT FREE.

Handbills with Name and Prices supplied gratis to Shareholders.

The Chemists' Aerated and Mineral Waters Association, Limited,
LONDON, HARROGATE, & BRISTOL.

SYPHONS • SELTZOGENES



SODAWATER MACHINERY

AND APPLIANCES

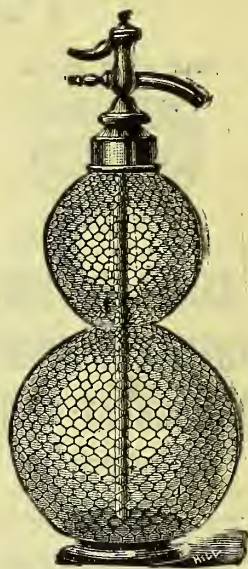
BRATBY & HINCHLIFFE LTD

ANCOATS 146 MINORIES

MANCHESTER & LONDON EC

81 ROBERTSON STREET, GLASGOW.

All our Seltzogenes are manufactured on the well-known "Fevre" System, and each one is thoroughly tested before leaving the works.



PRICES.

SYPHONS ... 1/6 1/8 and 1/10 each.

SELTZOGENES.

1	2	3	4	5	8
5/6	6/2	7/	8/	9/11	15/6

Including two funnels and stopper for charging.

GO AERATED WATER MANUFACTURERS

HAY'S

SOLUBLE ESSENCES

ARE GUARANTEED TO BE THE FINEST IN THE MARKET

GINGER. HOP. LEMON &c &c

W. HAY, MANUFACTURING CHEMIST

MULLEN

IN ORDERING SPECIFY HAY'S MANUFACTURE

ONE BY ONE!

PASCALL'S SILVER CACHOUS
BRILLIANTLY POLISHED.

FRAGRANT AROMA.

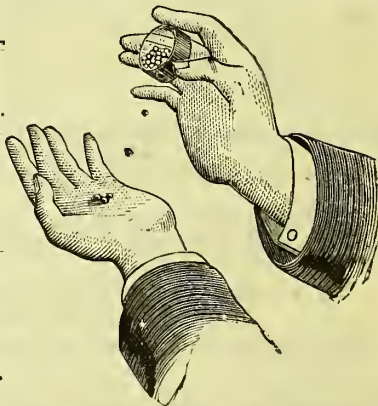
FINEST IN THE MARKET.

IN ROUND PATENT BOXES, MADE TO RELEASE ONE BY ONE.

QUITE
NOVEL.

PREFERRED
TO ALL
OTHERS.

In 1 dozen
Outer
Boxes.



Most
Saleable

2/3
per dozen,
In
1-lb. Bottles,
3/6
per lb.

Of the usual Wholesale Houses, and of the Manufacturer,
JAS. PASCALL, Blackfriars Rd., LONDON, S.E.

AGENTS APPOINTED FOR SALE OF DR. ALLINSON'S NATURAL FOOD.

The MOST DELICIOUS and LEAST COSTLY, for
BABIES, CHILDREN (any age), INVALIDS, AND ADULTS.

The INVENTION of

DR. T. R. ALLINSON, L.R.C.P.,

The Eminent Hygienic Physician, and Authority on Health and Diet, and each Packet bears his Autograph.
This FOOD is not highly spiced, or chemically prepared, but

A PURE and NATURAL FOOD.

PACKETS, 1d., 3d., 6d., 1s. EACH.

Write for Samples and Prices to

[1]

THE NATURAL FOOD COMPANY.

PETER TYRER, Proprietor,

South Street, Bermondsey, LONDON, S.E.

A WONDERFUL SUCCESS!!

NON-INTOXICATING BEER

Made from MASON'S Original

EXTRACT of HERBS

(REGISTERED.)

Composed of Yarrow, Dandelion, Comfrey, & Horehound.
ENLARGEMENT OF SIZE.

A Sixpenny Bottle makes EIGHT GALLONS of
HERB or BOTANIC BEER

A NON-INTOXICATING BEVERAGE

Full of Body and Flavour, with a Creamy Head like Bottled Ale, the most
perfect substitute for Alcoholic Drinks ever discovered, for either
Summer or Winter.

BEWARE of mean and fraudulent imitations.

BEWARE of others copying our title.

MASON'S is the original and only genuine.

MASON'S is a Special Compound entirely from Herbs

NO OTHER EXTRACT MAKES BEER LIKE IT.

Sold in Bottles at 6d., 1/, & 2/ each, with directions.

MASON'S WINE ESSENCES

Make Temperance Wines in a few minutes.

Ginger, Orange, Lemon, Raspberry, Black Currant, &c.

These are having a very large sale now, and are extensively advertised.

Sold in Bottles at 6d., 1s., and 2s. each.

Quotations on application.

SOLE INVENTORS & MANUFACTURERS: **NEWBALL & MASON,**
Manufacturing Chemists and Botanic Druggists, NOTTINGHAM.

SEASONABLE ARTICLES.

LIME JUICE CORDIAL. LIME JUICE CORDIALETTE. Both
these articles are popular summer beverages, and are put up in suitable
bottles attractively finished off.

	CORDIAL.	CORDIALETTE.
Reputed Pints, per dozen ..	4/9	3/9
" Quarts " ..	2/6	6/6
Per Gallon ..	2/9	1/9

PURE WEST INDIA LIME JUICE (Filtered Bright).

GRANULAR EFFERVESCENT CITRATE OF MAGNESIA. Per
cwt., 70/- and 71/.

EFFERVESCENT SUMMER SALINE. Per cwt., 85/-. 8-oz. bottles,
6/9; 16-oz. bottles, 12/- per dozen.

PERSIAN SHERBET (Lemon Kali). Per cwt., 41/- and 45/-.

Prepared under the supervision of a duly qualified Analytical Chemist.

CHAS. SOUTHWELL & CO., Dockhead, LONDON, S.E.

THE BERKEFELD - NORDTMEYER FILTER.



THE LANCET, September 12, 1891:—
"We have put the Berkefeld Filter
through many rigid tests; we have not
obtained the slightest evidence which
would enable us to contest any of the
statements made in regard to this filter."

ADVANTAGES.

Rapid, Perfect, and Permanent
Filtration.

Easy Cleaning and Sterilization
All Descriptions Supplied.

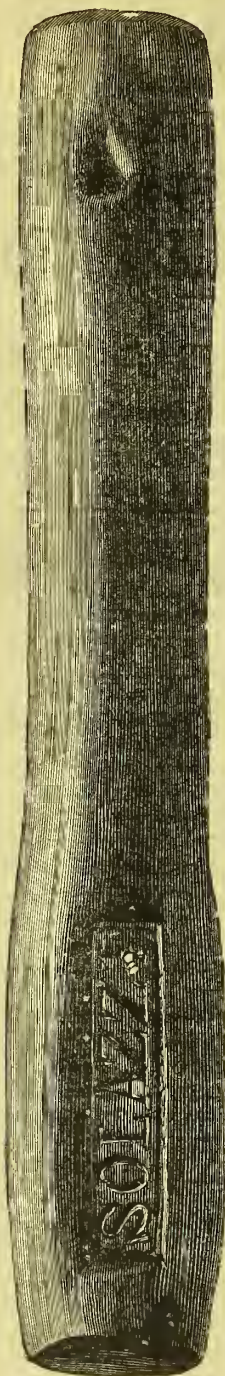
See Illustrated 4-page Circular, Jan. 30.

THE BERKEFELD FILTER CO., 121 OXFORD ST., LONDON, W.
LOCAL AGENTS APPOINTED.

ONE OF THE BEST SOOTHING AGENTS OR DEMULCENTS KNOWN.

PURE UNADULTERATED LIQUORICE

For COUGHS, COLDS, &c.



The SOLAZZI BRAND is certified by Analysis to be an ABSOLUTELY PURE EXTRACT, without any admixture. THE CHEMIST AND DRUGGIST says:—"The most esteemed of all." HEALTH says:—"By far the best and purest."

TO BE OBTAINED OF ALL WHOLESALE HOUSES.

EIGHT PRIZE MEDALS AWARDED.

GOODALL'S HOUSEHOLD SPECIALITIES.

YORKSHIRE RELISH.

Most Delicious Sauce in the World. Bottles, 6d., 1s., and 2s. each.

GOODALL'S BAKING POWDER.

The Best in the World. 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

GOODALL'S EGG POWDER.

One 6d. Tin is equal to 25 eggs. In 1d. Packets; 6d., 1s., and 5s. Tins.

GOODALL'S CUSTARD POWDER.

Delicious Custards without Eggs. In Boxes, 2d., 6d., and 1s. each.

GOODALL'S BLANCMANGE POWDER

Delicious Blancmange in a Few Minutes. Boxes, 6d. and 1s. each.

GOODALL'S QUININE WINE, B.P.

Best Tonic yet Introduced. Bottles, 6d., 1s., and 2s. each.

GOODALL'S GINGER-BEER POWDER.

Makes the Best Ginger-Beer. Packets, 3d. and 6d.

GOODALL'S BRUNSWICK BLACK.

For Painting Stoves, Grates, Iron, Tin, &c. 6d. and 1s. Bottles.

GOODALL'S LAVENDER WATER.

A Rich and Lasting Perfume. Bottles, 1s., 2s., and 5s. each.

GOODALL'S PLATE POWDER.

For Polishing and Cleaning all Metals. Boxes, 6d., 1s., and 2s.

GOODALL'S JELLY SQUARES.

Make a Delicious and Nutritious Jelly. In 1-pint, 1-pint and Quart Boxes, 3d., 6d., and 1s. each.

PROPRIETORS—GOODALL, BACKHOUSE & CO., LEEDS.

PATENT MEDICINES AND DRUGGISTS' SUNDRIES.

Monthly Price List of Patent Medicines, Druggists' Sundries, &c., will be sent post free on application to

GOODALL, BACKHOUSE & CO., LEEDS.

The Chemist and Druggist

SUPPLEMENT

Businesses Wanted.
Businesses for Disposal.
Premises to Let.
Auction Sales.

SATURDAY, AUGUST 6, 1892.

Partnerships.
Situations Vacant.
Situations Wanted.
Miscellaneous.

A Copy of this Supplement is inserted in every number issued of "The Chemist & Druggist."

PLEASE NOTE.

ADVERTISEMENTS for this Supplement must be received at the Office, 42 Cannon Street, E.C., not later than 5 o'clock on Thursday Evenings, for insertion in the current week's issue.

Advertisements must be prepaid. Remittances by post may be made in stamps, or by postal order made payable to "EDWARD HALSE," and crossed MARTIN'S BANK (LIMITED). To ensure prompt attention address all communications, endorsed "Supplement," to The PUBLISHER of "THE CHEMIST AND DRUGGIST."

OFFICES: 42 CANNON STREET, LONDON, E.C.

CHEMISTS' TRANSFERS.

MESSRS. ORRIDGE & CO., 32 LUDGATE HILL, E.C.

CHEMISTS' TRANSFER AGENTS,

May be consulted at their Offices on matters of SALE, PURCHASE, and VALUATION.

The business conducted by Messrs. ORRIDGE & Co. has been known as a Transfer Agency since the year 1846, and is well known to all the leading firms in the Trade. VENDORS have the advantage of obtaining an opinion on value derived from extensive experience, and are in most cases enabled to avoid an infinity of trouble by making a selection from a list of applicants for purchase, with the view of submitting confidential particulars to those alone who are most likely to possess business qualifications and adequate means for investment. PURCHASERS who desire early information regarding eligible opportunities for entering business will greatly facilitate their object by describing clearly the class of connection they wish to obtain.

1.—LONDON, E.—Genuine Retail and Dispensing Business; vendor relinquishing business, having held it many years; returns £600 yearly, all good prices; handsomely fitted shop, and well selected stock; good house and garden; about £550 required, or valuation of stock and fixtures; portion of purchase money can remain if wished.

2.—LONDON, S.E.—Prettily-fitted shop; good-class Retail and Dispensing, easy distance of the Crystal Palace; returns £450 yearly, easily increased; very good house and garden; about £450 required.

3.—LONDON (near Regent's Park)—Dispensing and Retail, good class; returns £800 yearly; very handsome shop, good stock; large house; price about £700. This business is worth the attention of anyone desirous of doing a pushing business.

4.—LONDON, N.—Retail and Dispensing Business, situate in a residential locality; returns between £500 and £550, all profitable business; handsomely-fitted shop and good house, with garden, held on good lease; price about £500; a fair offer will be entertained.

5.—LONDON, W.—Retail and Dispensing Business, established many years; returns over £600 yearly, with very good profits; Post Office attached pays rent; large double-fronted shop and large house, held on lease; price £500.

6.—LONDON (Suburb), S.E.—Retail and Dispensing Business, vendor going abroad; returns £400; profits very good; well-fitted shop and good house, held at low rental; vendor will accept value of stock and fixtures; the locality is being largely extended, and capital opening presents.

7.—LONDON, W.—Good-class Dispensing and General Retail; capital situate for a branch business from a good house; returns £600 to £625; the shop is handsomely fitted, situate at a corner; house large, with private entrance; price about £750.

8.—WEST OF ENGLAND.—Cathedral town.—The proprietor of a good-class business, returning £1,000 yearly, is prepared to introduce a purchaser for a year or two; proceeds to be equally divided during the introduction; purchaser must be prepared to invest £550 on entry and a similar amount at the end of introduction; references to be exchanged as preliminary to negotiation.

9.—KENT.—Unopposed business, situate in a pleasant locality; the business is very profitable and can be much extended; returns between £450 and £500; very good house and garden, very low rental; price to be arranged about £500.

10.—FASHIONABLE TOWN (West).—Dispensing and Retail business; returns at the rate of £600 yearly; handsome double-fronted corner shop, well stocked; good-sized house on long lease; price £535.

11.—HANTS.—Capital position in a very pretty rural district; old-established business; returns about £600 yearly, with very excellent profit; very comfortable house, with attractive garden, greenhouse, stable, &c.; price about £520.

12.—EASTERN COUNTY.—Capital agricultural town; old-established business; first-rate premises; returns £14 00 yearly, always increasing; the house is a good one; price required about £1,200; full particulars on application.

13.—BIRMINGHAM.—Retail and Dispensing business; very good profitable concern; returns £700 yearly; several good proprietaries sell well; house contains 7 rooms with private entrance, yard attached; price about £430.

14.—WATERING PLACE (Season just commencing).—Vendor's health obliges him to relinquish; present returns about £450, but can be doubled by anyone equal to work; large shop, good fittings, well stocked, post-office attached; house contains 13 or 14 rooms with private entrance, can let off easily; price £500.

Particulars of any of the above will be furnished on application.

N.B.—NO CHARGE TO PURCHASERS.

Other Businesses, Town and Country. Particulars free on application. Personal applicants receive Messrs. O. & Co.'s direct attention and advice, where required, free.

TERMS FOR VALUATION ON APPLICATION. APPOINTMENTS BY POST OR WIRE HAVE IMMEDIATE ATTENTION.

Messrs. ORRIDGE & Co. invite communications from COLONIAL and FOREIGN firms where business of a confidential nature requires the especial attention of a London Agent.

NOTICE.—Messrs. ORRIDGE & CO. have a large number of Businesses for Sale, suitable for Gentlemen with Small Capital. Full particulars on application.

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VALUER, LEICESTER,

60 St. Stephen's Road.

References to principal London and Provincial Wholesale Houses, also to numerous clients throughout the United Kingdom.

BUSINESSES THOROUGHLY INVESTIGATED FOR BUYERS. 20 YEARS' EXPERIENCE NO CHARGE TO BUYERS.

STOCKTAKING UNNECESSARY.—Stocktaking is always dreaded by Chemists, and with a competent Valuer is not necessary.

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STOCKS AND FIXTURES BOUGHT FOR CASH.

£1,400 returns.—Good General Retail, Prescribing, and own Specialties; rent £35; leaving to take larger concern; goodwill £100, and valuation about £700.

WARWICKSHIRE.—In pretty part; unopposed Retail, Dispensing, and Prescribing; net profit £430; rent £25; good house; price £900.

£2,250 returns.—First-class Retail and Dispensing at good prices; South; 6,000 new prescriptions per annum; net profit £800; price £2,000; applications for this must furnish two references.

MESSRS. BERDOE & CO.

CHEMISTS' TRANSFER AGENTS & VALUERS,

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Established 1870.

VALUATIONS AND TRANSFERS conducted in any part of the United Kingdom. Over 20 years' practical experience.

NO CHARGE TO PURCHASERS.

Messrs. BERDOE & CO. beg to inform Gentlemen desirous of selling their Businesses that they have a number of Clients unsolicited desirous of investing from £500 to £2,000 cash in genuine concerns. Particulars will be received, in strict confidence, and terms sent on application as above.

1.—SOUTH COAST.—Light Retail and Dispensing Business; central position in fashionable town; large corner shop, making £400 yearly net profit; price £750; part can remain.

2.—SOMERSET.—Market town; Retail and Dispensing Business, with Stationery; returns £1,400; same hands over 30 years; owner retiring; good house; price £1,000 or valuation.

3.—DERBYSHIRE.—Light Retail, Dispensing, and Prescribing Business; returns £750; net profit £300; corner double-fronted shop, well fitted, and large stock; good house, side entrance; price £550.

4.—OXFORDSHIRE.—Unopposed Retail and Prescribing Business; under management; much neglected; net profit £140 on present returns; rent £24; good house and garden; valuation.

5.—LIVERPOOL (Suburb).—Retail and Dispensing Business, unopposed; returns £300, increasing; rent £30; good house, bath-room; selling through illness; price £200 or valuation; easy payment.

6.—KENT (near Tunbridge Wells).—Village Business; returns £225, very profitable; rent £25; good house, large well-stocked garden, fowl run, pigery, &c.; £140 or valuation.

7.—LONDON, S.W.—Main road; Retail and Prescribing Business; returns over £700; net profit £340; good house; corner shop; no near opposition; price £625; part can remain.

8.—LONDON, S.E.—Retail, Dispensing, and Prescribing; returns £700 under management; excellent position; 8-roomed house; private entrance; price £500; part can remain.

9.—LONDON, N.W.—Retail and Dispensing Business; returns £600 at good prices; net profit £200; shop is well fitted and stocked; price £300 or offer.

Particulars of the above and others sent free on application.

Messrs. Berdoe & Co., 30 Jewry Street, Aldgate, E.C.

BUSINESSES FOR DISPOSAL.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

LANCASHIRE.—Mixed cash trade; splendid position, main road; Post Office attached; returns about £250, capable of rapid increase; price £150, or valuation. Apply, "Chemist," Antley Post Office, Accrington.

FOR Sale, Chemist's Business in prosperous Yorkshire manufacturing town (population 4,500); rent, house and shop, £18; light trade; established 50 years; turnover about £5 a week. Apply, L, care of Hirst, Brooke & Hirst, Leeds.

LONDON, N.W.—Old established Business with good Dispensing and Specialties; returns over £800; an excellent opportunity for anyone beginning for himself; price £250. Apply, 114/12, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

Messrs. CROCKER & CO.

Trade Valuers, Transfer Agents, and Accountants,

15 WALBROOK, E.C.,

Have at the present time a large number of inquiries for good class Country Businesses, and they invite communications from intending vendors. NO CHARGE IS MADE UNLESS A SALE IS EFFECTED, and particulars of businesses are given to those only having the required amount of capital to invest, thus guaranteeing only *bona-fide* inquiries and obviating publicity. VALUATIONS MADE FOR PROBATE OR TRANSFER, BOOKS AUDITED AND BALANCE-SHEETS PREPARED IN ANY PART OF THE UNITED KINGDOM. Having had many years' practical experience in the Wholesale and Retail Drug Trade, C. & Co. can offer valuable assistance and advice in the conduct of such matters. References permitted to past and present Clients, also to the Leading Wholesale Houses in the Trade.

LONDON, W.—An exceptionally good investment; Retail and Prescribing trade, in marketing thoroughfare; returns £400; profits about 50 per cent.; price £275, or valuation; strongly recommended.

PARTNERSHIP in a Manufacturer's Business; capital required about £1,000; will suit a practical Chemist, and prove a profitable investment for time and capital.

LONDON, N.—Unopposed position; good-class Retail, Dispensing, and Prescribing; returns £700; exceptionally handsome pharmacy and good house; price £500.

ON THE BANKS OF THE THAMES.—Old-established Retail and Dispensing; returns £800; price £750; scope for increase.

SEASIDE.—Good-class Retail and Dispensing trade; returns £600; plenty of scope for increase; price £400; and convenient house.

LONDON, S.W. (Suburb).—Cash Retail and Dispensing; returns £813, rapidly increasing; very profitable; price £600.

HOME COUNTY.—30 miles out.—Good-class Country Business; returns £800; profits £300 after paying all expenses; price £700.

LONDON, S.E. (Suburb).—Near Crystal Palace; Light Retail and Dispensing; returns £500; price £400; very handsome pharmacy.

LONDON, W.—Good-class Retail and Dispensing; returns £1,000; price £800; handsome pharmacy; valuable lease; good house.

NO CHARGE TO PURCHASERS.

VALUATIONS A SPECIALITY. TERMS ON APPLICATION.

BUSINESSES FOR DISPOSAL—Continued.

LIGHT Retail, Dispensing, and Prescribing Business, in manufacturing town near Manchester; very good and profitable business; no heavy trade; rent only £25; net profits £225; price to an immediate purchaser £450. Samuel Biggin, Middleton, Lancashire.

IN one of the leading towns in the West of England.—A first-class Light Retail, Prescribing Business, with Wines and Spirits; returns have averaged £1,900 for last 3 years; handsomely fitted; good stock; large house; valuation only. Address, N. M., 62 Crescent Road, Reading.

FOR disposal, in North Staffordshire, a Prescribing and General Retail, with good Proprietaries; full prices; Post Office above pays rent and taxes; no opposition; established 30 years; in healthy and pretty neighbourhood; good house and garden. "Tenax," F. Midwinter, Esq., Market Place, Burslem.

LONDON, S.W.—Old-established Retail and Dispensing Business for immediate disposal, on account of ill-health of proprietor; main thoroughfare and populous neighbourhood; price very low; full particulars on application by letter. X. Y., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

FACING the Sea, on the Marine Drive of large and fashionable seaside resort, a select Dispensing and Retail Business for disposal, capable of doing £1,000 a year; incoming low; ill health cause of sale; large house; splendid opening for Dentistry. Address, "Dens," Hearn & Co., 38 Southwark Street, London, S.E.

£350 CASH.—Very old established Business in London suburb; let down by poor management, has done £1,500; good shop, well stocked and fitted; must be sold, splendid opening for Homeopathic Chemist, none in district. "Analyst," c/o Messrs. Maw, & Thompson, Aldersgate Street.

£600.—Unopposed, increasing Business for Sale; situated between London and the South Coast; returning last year £735; net profit £315; full prices except patents; low rent, valuable lease; investigation courted. "Rose," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£225 Cash will purchase a genuine Light Retail and Prescribing Business in a good suburb of London; returns £450; capable of increase under more energetic management; good house; long garden; low rent, full particulars on application. "Oleum," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES FOR DISPOSAL—Continued.

CHEMIST, Druggist, Dispensing Business; old-established; same proprietor over 40 years, now retiring; corner position in the very best thoroughfare of Great Yarmouth (Regent's Street); income very low for an immediate purchaser, including all fixtures, utensils, &c., &c. Apply early to J. S., Park Hotel, Great Yarmouth.

£400. (Midlands).—An increasing ready-money Retail and Prescribing Business, returning £600, all at full prices with exception of patents; convenient house; garden; moderate rent; all light trade, nothing heavy; will bear investigating. Address, A. D., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

PRICE £130, or valuation.—An old-established Retail, Dispensing, and Prescribing Business, in the principal thoroughfare, and the nearest Chemist to a district of a population of over 3,000; returns amounting upwards of £300; fixtures; several proprietary medicines; good and convenient house. J. Stewart, Chemist, Grantham.

LONDON, N.—Cash Retail and Prescribing, in good business thoroughfare; densely populated neighbourhood; present returns average over £11 per week, and increasing; shop nicely fitted in mahogany, and well stocked; books open to inspection; price £400. "Statim," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

VERY handsome and commanding Pharmacy in large country town under 40 miles from London; established 3 years; returns about £200; pushing man from a leading country house could double returns; situated in best part of the town. For further particulars address (enclosing London reference) to "Chemist," Deacon's, Leadenhall Street.

BIRMINGHAM Suburbs; thickly populated; a genuine Prescribing and Light Retail, returning over £500, and increasing; considerable Proprietaries; no patents; exceptionally good house and shop; price £300. This Business is a thoroughly profitable concern; at present has only partial attention, hence great scope for much increase. "Prescriber," Wyleys, Coventry.

£300.—Retail and Prescribing Business, with Medicine-chest trade, in good main road at Poplar; returns about £700, good profits; shop is well fitted and stocked; good house, low rent, on lease; selling through illness; price £300; only requires seeing. Address, "Poplar," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

£400.—In heavily populated suburb of Lancashire seaside residential town, genuine old-established cash Drug, Prescribing, and Paint Business; excellently fitted shop and store-rooms; splendid house, private entrance; ill-health cause of disposal; every information to bona-fide purchaser. G. K. P., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

GENUINE Retail Drug Business for sale; established 20 years ago by present proprietor, who is retiring from retail; long lease, as lock-up shop, or with house; 10 minutes from London Bridge, Surrey side; thickly populated; very brisk ready-money drug trade, with two or three good proprietary lines. Address, "Practical Chemist," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

HANTS.—Genuine old-established Business in market town; splendid profits; comfortable house, garden, greenhouse, stores, and stables; rent £34, on lease; let off £10; returns nearly £600, increasing; valuable proprietaries; shop well fitted and stocked, in a position; no drug stores; price about £500. "Ferrum," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

BUSINESSES WANTED.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

WANTED, at once, a good-class Country Retail and Dispensing Business, in or near a good provincial market town; returning upwards of £800, with scope for increase; advertiser has just sold his business in the North of London, and is prepared to treat at once. "Chemist," c/o Newbery & Son, King Edward Street, E.C.

TO LET.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

TO Let, good Shop and Cellars, &c.; best position at Bute Docks; suitable for Shipping Chemist, &c. Apply, T. Houlst, Dinas Powis, Cardiff.

TO CHEMISTS AND DRUGGISTS.—To be Let, capital modern House and Shop situated on the main road; no opposition; good opening for Dental practice; immediate possession can be given; there is a good, well-drained basement that will let off. Apply to Mr. Shipley, 92 Leadenhall Street, E.C. Stamp.

PARTNERSHIPS.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

PARTNERSHIP in sound, well-established Chemist, Drysalter, Wine, and Spirit Business in Manchester; several original Specialities in increasing demand; £300 to £500 wanted for extension. Apply to L. D. Prince, International Drug Company (Limited), 159 Stretford Road, Manchester.

FOR SALE.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

HANDSOME Spanish Mahogany Fixtures on sale; also Shop-stands, Jars, &c.; no reasonable offer refused. Apply, John Wild, 307 Oxford Street, Manchester.

FRENCH Soda-water Machine; fills 2 dozen syphons with one charge; complete with syphon and bottle-filler; requires very little space—about 3 feet by 2; price £15. J. W. Cocks, Pharmacist, Torquay.

OFFER wanted for entire handsome Fittings, in good condition, of 20 St. John's Road, Clapham Junction, including swan-neck carboys, large specie-jar and stand, &c. Apply, Lixmoore, 529 Battersea Park Road.

THE entire Fittings of a Chemist's Shop, including Drawers, Shelving, Counters, Dispensing-Screen, Jars, Stoppered Bottles, 2 Specie-jars, Window Enclosure, &c.; no reasonable offer refused. Apply, 118/9, Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

SITUATIONS OPEN.

3s. 6d. for fifty words; 6d. for every 10 words beyond.

QUALIFIED Assistant wanted, at once. With full particulars, to W. Whysall, Pharm. Chemist, Grantham.

COMPETENT Assistant, not under 25, accustomed to Dispensing. Send full particulars to Davies & John, Bath.

WANTED, at once, qualified Assistant; must speak Welsh; Mixed business; state salary, &c. Thomas, Chemist, Merthyr.

WANTED, a qualified Assistant, about 24; comfortable home; no Sunday work; hours 8 to 6. Exor, Wright, Chemist, Olney.

JUNIOR, for a Light Retail and Dispensing business, about August 23; short hours. O. Williams, Pharm. Chemist, Bush Street, Pembroke Dock.

WANTED, Junior for 1 month (indoors). Apply, stating terms and usual particulars, to Pelham C. Young, Preston Pharmacy, Brighton.

ASSISTANT wanted, for Liverpool; tall, gentlemanly, married; aged from 25 to 30. Apply, by note, to Wood, "Hillside," Storeton Road, Birkenhead.

JUNIOR Assistant, at once (indoors), about 20. Apply, stating when disengaged, age, height, references, photo (to be returned), to Fred. J. Oliver, Maidstone.

DISPENSER wanted, at once; salary 30s. per week; no Sunday work. Apply, Dr. Cotman, 140 Minorities, City, any morning before 11 or evening after 6.

ASSISTANT, with experience of Laboratory and Buying departments in Wholesale Drug trade; 25 to 30. By letter to A. C., 66 Dresden Road, Hornsey Lane, N.

J. SLADE, Tenbury, requires a steady, trustworthy Junior, accustomed to Mixed Country trade; state age, experience, when at liberty, and salary expected.

WANTED, on September 1, an Assistant, to take charge of small business; plenty of time for study. Apply, by letter only, to W., 44 Hugh Street, Eccleston Square, S.W.

IMMEDIATELY.—Competent Assistant of good address, with good Dispensing experience; not under 23. Also Junior for Stock counter. W. Windle & Co., 452 Edgware Road, W.

GENTLEMANLY Assistant, qualified, for branch in good-class neighbourhood; easy hours. Apply, A. H. Ellithorne, Chemist, 8 York Place, Ball's Road, Birkenhead.

JUNIOR Assistant required about August 15; aged about 21; indoors; time allowed for study. Apply, with usual particulars, to T. Jackson, 35 Market Place, Burslem.

SITUATIONS OPEN—Continued.

WANTED, at once, an Assistant (indoors), about 30, with Minor qualifications, a good Counterman and accurate Dispenser. Apply, J. W. Hincks, 61 Northgate Street, Chester.

SMART Junior wanted; unqualified; outdoors; easy hours; half-holiday weekly; time for study; no Sunday duty. Apply, with full particulars, enclosing photo, to Furness, Acornington.

WANTED, about middle of August, a gentleman, thoroughly reliable, steady, and energetic; qualified. Write, or apply personally after 8 P.M., H. S. Icke, 37 Vestry Road, Camberwell, S.E.

A N Assistant, holding Minor qualification, with some knowledge of Photographic goods, is required for the Cape Colony. Apply, with full particulars, to "Assistant," 14 Bunhill Row, London, E.C.

WANTED, young man, qualified, manage Light Retail and Dispensing business for widow; preference given to one who can prescribe; must be steady. Apply, D. J., 138 Queen's Road, Halifax.

FROST & HARRISON, Pharm. Chemists, 3 Eltham Road, Blackheath, S.E., require a Junior Assistant with good experience in Dispensing. Apply, with full particulars and photo (to be returned).

DISPENSING only.—Assistant, with Minor qualification; outdoors; salary £9 per month; state age, height, full particulars of previous engagements, and enclose photo. S. Wand, Chemist, Haymarket, Leicester.

JUNIOR or Improver wanted, at once; smart counter-hand, with good appearance and address; accustomed to Mixed Agricultural trade. Full particulars, salary, &c., to D. S. Anderson, Chemist, Chesterfield.

BATH.—R. Dunn, Chemist, requires an Assistant for good-class Retail and Dispensing; aged about 23; indoors. Applicants please state full particulars, salary, experience, references; if convenient, enclose photo.

WANTED, at once, an energetic qualified Assistant, able to Prescribe and Extract (not essential); salary £70 per annum (indoors). Apply, stating full particulars, references, &c., to Harwood, 69 New Road, Woolwich.

PARIS, for 1st September.—A qualified Assistant, accustomed to first-class business, with knowledge of French preferred. Apply, "Continental," c/o Messrs. Hearon, Squire & Francis, 38 Southwark Street, S.E.

DOCTOR SARGENT, M.D., M.R.C.S., L.S.A., L.M., L.F.P.S.G., Station Road, Brixton, London, England, requires an Assistant, either outdoors or indoors; able to attend small Retail. Apply, stating salary required.

AT once—Required, an Assistant to manage small branch in country; hours easy; half-holiday weekly; no Sunday duty. State age, married or single, with salary expected, and reference, to J. C. Wilson, Bridge, Kent.

OUTDOORS.—Wanted, a Qualified Assistant, of good address, for the Retail counter; also a competent Assistant to manufacture and superintend stock preparations. Apply to J. K. Matterson, 108 New Oxford Street, W.C.

WANTED, by the middle of August, an unqualified Assistant for a first-class Dispensing and Retail Establishment; aged from 21 to 24 years. Apply, with usual particulars, to Shrubsole & Son, City Pharmacy, Chester.

FOR INDIA.—Wanted, a qualified Chemist's Assistant of gentlemanly appearance, aged about 23, single, must be a good salesman, for a Mixed business. Address, by letter, A. C., c/o Messrs. Meggeson & Co., 14 Miles Lane, E.C.

BOURNEMOUTH.—Qualified Assistant wanted, to manage branch. State age, height, salary required, whether married or single, and enclose photo. Address, N. S. L., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

WANTED, immediately, Part-time Assistant every evening, 6 to 10; one reading for Major preferred; must have excellent references and experience. Apply, with usual particulars, Ferguson, 20 High Street, Camden Town, N.W.

ASSISTANT wanted (indoors), about 22; one who has had about six years' experience; must be of gentlemanly manners and address, and accustomed to good-class trade. Apply, with full particulars, J. C. Percus, 48 East street, Brighton.

WANTED, a good Junior Assistant in a Light Retail and Dispensing business, in or out door. State usual particulars and enclose photo (which shall be returned) to Charles Thompson, Pharmaceutical Chemist, Sparkbrook, Birmingham.

TIME for Study.—Smart, gentlemanly Junior, indoors; must be industrious, obliging, and trustworthy; good Counterman. State age, height, and salary required, enclosing photo and references. Knowles, 182 Clarendon Road, E.C.

A N Assistant to manage Branch business, 8 miles from London (outdoors). Apply, by letter, giving full particulars, to Lockyer Bros., Chemists, Deptford, S.E.

ASSISTANT wanted, immediately, about 23. Please state when at liberty, age, height, salary required (indoors), and references, R. Smith, 5 Norman Road, St. Leonard's-on-Sea.

ASSISTANT, about 24 (indoors); accustomed to good-class Retail and Dispensing. Particulars, with photo (if convenient), to F. Rossiter, 14 Grand Parade, St. Leonard's-on-Sea.

WANTED, Chemist's Assistant (outdoors), immediately; aged 22 to 25; brisk Retail and Dispensing business; hours moderate. Apply, stating age, height, references, and salary expected, to H. Bell, 47 Crown Street, Halifax.

FLEEMING & SON, Pharmaceutical Chemists, Wolverhampton, have a vacancy for a qualified indoor Senior Assistant, unmarried, and accustomed to country trade; also for well-educated youth as indoor apprentice; premium required.

ASSISTANT for a Retail Business in working-class neighbourhood; good references. Apply by letter, giving age, salary required, experience, when disengaged, &c., to G. F. P., Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

LABORATORY.—Experienced man required for Wholesale Druggists' Laboratory; must be well up in manufacturing, and capable of taking the lead. Apply, "Laboratory," Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

TO take charge of small Branch, in view of early purchase; must be qualified and Registered Dentist; present returns under Manager (without Dentistry) £5 a week; price £230; part could remain. Apply, H. C., 114 Leadenhall Street, London, E.C.

REQUIRED, by Manufacturing firm, qualified men to interest Physicians in high-class therapeutic agents; good address essential; liberal salary. Apply, with references, to O. A., c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

REQUIRED, by Manufacturing firm, two active Travellers, with good connection amongst Wholesale and Retail Chemists; liberal salary and expenses to good men. Apply, with references, to B. D., c/o Office of THE CHEMIST AND DRUGGIST, 42 Cannon Street, E.C.

ASSISTANT (indoors), for good Country Retail and Dispensing; salary £40 per annum; good counter man, and obliging. Apply, stating age, experience, height, and enclosing carte (to be returned), to John Gilling, Pharmaceutical Chemist, Salford Wadden.

QUALIFIED Assistant wanted for high-class cash business; must be gentlemanly, active, and of good business habits. Liberal terms to a good man. Also a good Junior. Apply, stating age, experience, references, and send photo, to T. Buxton, Chemist, Clifton, Bristol.

A QUALIFIED Assistant; aged 25; a pushing, energetic, gentlemanly business man; able to take charge of new Branch when required; business mixed; exceptionally good references essential; state salary (outdoors); hours 8 A.M. to 8 P.M. Gibson, Burton-on-Trent.

IMMEDIATELY (for Ostend).—M. A. de Cock, Pharmacie Centrale, 15 rue des Ecuries Bleues, Ostend, is in immediate want of an Assistant, with a knowledge of English and German, and (preferably) with some acquaintance with French; send photo. Address as above.

ASSISTANT; abstainer; indoors; at once; aged about 21; hours 8 till 10, and alternate Sunday evenings; no time can be spared except the usual afternoon weekly. Apply personally, or enclosing carte, to Mr. Taplin, 91 Hampstead Road, London, N.W. One only kept.

OUTDOOR Assistant (Major or Minor), with all-round knowledge of a good General business, and abilities to push a brisk counter trade; competent gentlemen with satisfactory references requiring a permanency please apply (if personally, in the morning) to Cross, 23 Brompton Road, London, S.W.

WHOLESALE.—A Swiss, aged 21, who has been apprenticed to a wholesale business in Bale, wishes to find employment in the warehouse or office of an English firm; has a good knowledge of Drugs, and corresponds in German and French; good references. R., Holly Lodge, Cressington Park, Liverpool.

IMMEDIATELY, Manager for mixed country business; short hours, no Sunday duty; must be a good Prescriber and Touch Extractor; abstainer, and one seeking permanency preferred; house attached; state age, salary required, references and experience. Apply, W. Greaves, Chemist, Clow, near Chesterfield.

QUALIFIED Assistant; Light Retail and Dispensing; progressive salary to a thoroughly reliable man, commencing at £50; comfortable home; healthy locality; one requiring a permanency would find this a suitable situation. Apply (personally preferred, or by letter enclosing carte) to Mr. Richardson, 155 Fried Street, Reading, W.

WYETH'S BEEF JUICE.

A Liquid Preparation of the CHOICEST BEEF, containing the Nutritious Albuminous Principles in an unaltered and soluble form.

A Two-ounce Bottle
of Pure
Juice of Meat.

Actual test will show
3 per cent. by
weight of
ANHYDROUS
ALBUMINOIDS.

Contains the
Hæmoglobin of the
Meat unaltered.

Mix only with Iced or
Lukewarm Water;
Never with Boiling
Water, as
extreme heat renders
the valuable
Albuminous Elements
insoluble.

READ THE FOLLOWING

From

THE LANCET.

LONDON: SATURDAY, APRIL 30, 1892.

Analytical Records.

WYETH'S BEEF JUICE.

(JOHN WYETH AND BROTHER, PHILADELPHIA.)

"The following analytical notes and results testify unmistakably to the excellence of this preparation. It is a dark reddish-brown liquid of pleasant beef-like flavour, and free from objectionable preservatives. It contains not only the albuminous principles of beef in an active and soluble form, but in the condition in which they occur in the freshly expressed juice of beef itself. Viewed with the spectroscope a dilute solution is seen to give two absorption bands, characteristic of fresh blood or hæmoglobin. The liquid loses this property, however, as soon as it is boiled; while the coagulated albuminous principles assume a blood-red tint. According to our experiments no less than fourteen grains of solid albuminous principles in every fluid ounce are thus precipitated. The following figures gained in analysis will convey some idea of the eminent degree of concentration through which this preparation has been carried. Notwithstanding this, the vital elements of beef juice it contains have been preserved unchanged. Moisture, 44.87 per cent.; organic matter, 38.01 per cent.; mineral matter, 17.12 per cent. The organic materials contain 4.57 parts of nitrogen, and the mineral matter consists largely of common salt and, of course, soluble phosphate. Results like these make it safe to assert that as an example of preparations of this class Wyeth's beef juice is little short of perfection."

MANUFACTURED BY

JOHN WYETH & BROTHER

PHILADELPHIA, U.S.

LONDON—30 SNOW HILL, E.C.

Contains Albuminoids
in a higher degree
than any
other Preparation of a
similar nature.

Proportion of Nutrient
to Stimulating
Properties such that
it can be
retained by the
stomach in **EXTREME**
cases of Debility.

Being largely
Prescribed by the
Medical Faculty of
Great Britain,
every Chemist should
have some in Stock.

THE SALE
IS GUARANTEED.

Can be obtained from any Wholesale Druggists, or direct from any of the following Firms:—

Agents for Great Britain and France—**ROBERTS & CO.**, London and Paris.

Distributing Agents for Lancashire—**JAMES WOOLLEY, SONS & CO.**, Manchester.

Distributing Agents for Yorkshire—**GOODALL, BACKHOUSE & CO.**, Leeds.

Distributing Agents for Scotland—**RAIMES, CLARK & CO.**, Edinburgh.

WOODWARD'S

"GRIPE WATER"

TRADE MARK.

The Proprietor guarantees
that
"WOODWARD'S GRIPE WATER"
contains **NONE** of the
SCHEDULED POISONS.

FOR WHOLESALE AND SHIPPING TERMS APPLY

THE PROPRIETOR, CHAUGER STREET, NOTTINGHAM.



ROBINSON'S LIEBIG'S BEEF WINE.

Composed of Liebig's Extract of Beef, Extract of Malt,
and sound Port Wine.

REPORT ON BEEF WINES.

From the results of my Analyses of various Beef Wines I have had occasion to examine, none have equalled as regards strength, purity of ingredients, and (of no less importance) the skilful and judicious manner in which the respective ingredients have been proportioned and combined, the Liebig's Beef Wine manufactured by Mr. B. ROBINSON, of Pendleton, Manchester.

It is in every sense a reliable preparation, embodying in a pleasing and palatable form all the acknowledged medicinal and nutritive properties pertaining to Liebig's Extract of Meat, Extract of Malt, and sound Port Wine.

WILLIAM ELBORNE, F.C.S., F.L.S.,

Lecturer on Materia Medica in the Owens College, Manchester (Victoria University.)

December 1b. 1888.

Introduced 1855.]

ROBINSON'S CONCENTRATED WATERS.

[Introduced 1855.

Ounces of these Waters added to Forty Ounces of Distilled Water forms a clear Medicated Water (without filtering), similar in every respect to those prepared according to the directions of the British Pharmacopoeia, and free from all Chemical impurity. They will keep good any length of time in any climate.

Aqua Anethi, Concent., 4/ lb.	Aqua Cinnam. Ver. Concent., 8/ lb.	Aqua Fœniculi, Concent., 4/ lb.	Aqua Pimentæ, Concent., 4/
" Anisi " 4/ "	" Cassia " 4/ "	" Menth. Pip. " 4/ "	" Rosæ " 8/6
" Camphoræ " 4/ "	" Flor. Aurant. " 8/8 "	" Ang. " 8/ "	" Rosæ Virgin. " 10/6
" Carui " 4/ "	" Flor. Sambuci " 8/8 "	" Virid. " 4/ "	

The above are put up in Bottles of 1 lb. or 1 lb. and upwards, each of which has the Inventor's Protection Label over Cork.

From the LANCET, July 15, 1883:—"CONCENTRATED WATERS (Robinson's, Pendleton, Manchester).—Among the samples sent to us we find Aq. Anethi, Anisi, Cinnam. Ver., Rosæ, and some dozen of others. Diluted with forty parts of water they form the ordinary waters of the Pharmacopoeia. They are excellent in quality, and will be very useful, especially in country practice. [1]

Wholesale Agents: HEARON & CO., London, and most Provincial Wholesale Druggists. PREPARED BY THE INVENTOR
B. ROBINSON, MANUFACTURING CHEMIST, DISTILLER, AND BREWER OF BRITISH WINES, MANCHESTER.



ROWNTREE'S

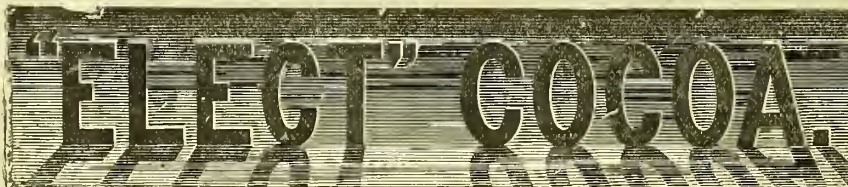
The "MEDICAL PRESS AND CIRCULAR":—

"Certainly this preparation is of delicate flavour . . . It is perfectly soluble . . . the small quantity required for the immediate production of a cup of excellent cocoa will ensure for this 'Elect Extract' a favourable reception at the hands of persons of weak digestion, and all who prefer this wholesome beverage to tea and coffee."

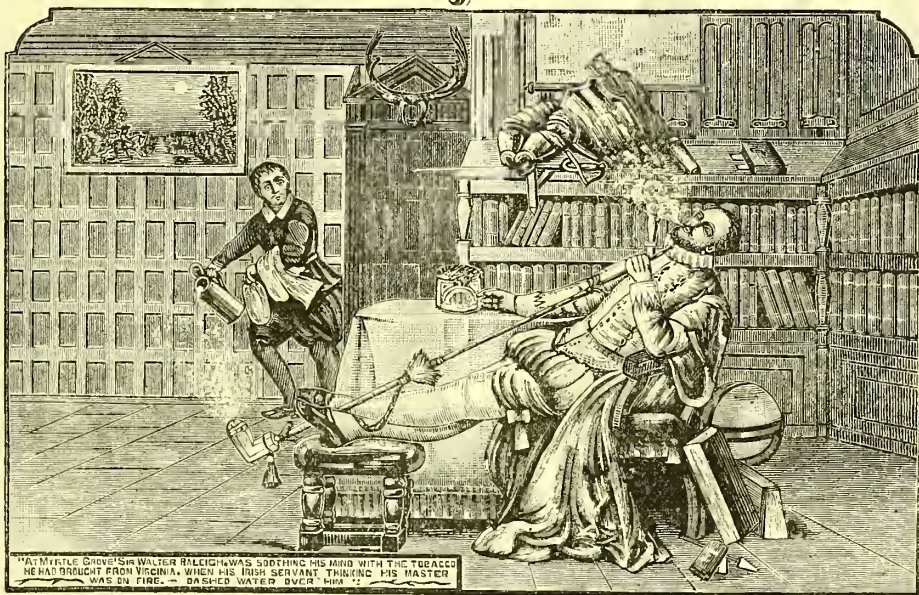
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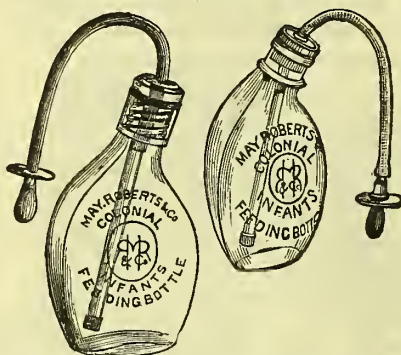
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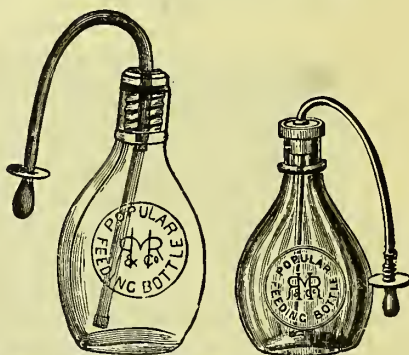
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If with White Glass Bottles, 2/ gross extra.

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Do. do. Black Fittings	37/	31/	26/
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Crocker, G. B., & Co.
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- VASELINE.**
Cheesbrough Manufacturing Co.
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Day, Son and Hewitt
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James, W. H. (Blister)
Jeyes Sanitary Compound
Lloyd, T. Howard & Co.
Rookledge, F. E.
Spratts (Dogs)
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A HIGH-CLASS MEDICATED WINE AT A REASONABLE PRICE

THE LATEST TESTIMONY TO THE EXCELLENCE OF
HALL'S COCA WINE.

"The Lancet," April 9th, 1892.

HALL'S COCA WINE (STEPHEN SMITH & CO., BOW, E.)

This is an excellent Wine, with an alcoholic strength equal to good port, possessing a similar flavour and bouquet, but associated with it also is the peculiar though pleasant aroma of the fresh Coca leaf. Ether when shaken with the Alkalised Wine yielded a residue on evaporation which with hydrochloric acid gave characteristic Crystals of Cocaine hydrochlorate; they were further identified by the numbing effect produced by the Crystals when rubbed on the tip of the tongue. Analysis gave the following data: Alcohol, 15 per cent. by weight, 18.50 per cent. by volume; total solid matter, 18.73 per cent. (sugar and coca principles); mineral matter, 0.33 per cent. The restorative and invigorating properties of the Coca leaf are now well known, and it may be very conveniently and palatably administered in the form of an agreeable Wine such as that under examination, a wineglassful of which is stated to contain one drachm of the soluble active ingredients of the leaves.

STEPHEN SMITH & CO., BOW, LONDON.

"THE LEADING HOUSE"FOR **"PRIVATE BRANDS"****DE-HYDRATED AND SUPERFATTED SOAPS.****35 DANBURY ST., Islington, London, N.****H. BRONNLEY & CO.,** LARGEST TOOTH SOAP
COMPRESSERS IN THE WORLD**WHITE AND SOUND TEETH.****JEWSBURY & BROWN'S****ORIENTAL TOOTH PASTE.**

This old-established and increasingly favourite Dentifrice has been over Sixty Years before the Public. It is warranted to retain its properties and keep in good condition in any climate. The original and only genuine is manufactured solely by

JEWSBURY & BROWN, Chemists, MANCHESTER,

and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is annexed. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offered. Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

The Trade and Shippers supplied by the leading houses in London and elsewhere. Bills and Shew Cards forwarded on receipt of address cards and directions for enclosure.

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SPECIALITY OF

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DISTILLERS AND EXPORTERS,

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THE OTTO OF ROSE which this house distills and exports is known above all by the absolute purity of its quality and the unexcelled sweetness and strength of its odour. It is guaranteed to be the finest essence produced in the famous Rose Valley of Bulgaria.

Shipkoff's Brand received the only award for Otto of Rose at the Paris Exhibition.

**THE LARGEST SALE
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TOOTH PASTE.***Special terms sent on application for £5 worth.***WOODS & SON, Pharmacists, PLYMOUTH, ENGLAND.**

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ALSO MANUFACTURERS OF
Funnels, Evaporating Pans, Electric Battery Fittings, Bed Pans, Urinals, Medicine Spoons, Physic Cups, Sick Feeders, Bleeding Basins, Medicine Measures, Eye Cups, Inhalers, Nursery Lamps, Wall Tiles, &c.

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London Rooms—ST. ANDREW'S BUILDINGS, HOLBORN CIRCUS.

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"EDELWEISS" Perfume

"EDELWEISS" Soap

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"Edelweiss"

(REGISTERED)

PERFUME.

The Most Exquisite Per-
fume yet produced.

Odour Absolutely
Unique.

"Edelweiss" is the
Beau Ideal of a
refined woman's Perfume.

SPECIAL NOTE.

There is a GOOD profit for
the Chemist.

SPECIAL NOTE.

Chemists who stock "Edel-
weiss" REPEAT their
orders.

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"VELVEEN" SOAP

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The Soap of the 20th Century. Pure, White, Neutral.

The Finest Soap that Science can produce.

Fragrant, Soothing.

Manufactured from Really Edible Fat.

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"VELVEEN"
pays to stock.

CHEMISTS, NOTE.

"VELVEEN"
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NAPOLEON PRICE & CO., LIMITED, Proprietors of

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ALL COMMUNICATIONS TO 164 ALDERSGATE STREET, E.C.

LUCKY HITS.

Tom Brooks's "SWEET SOLID PERFUMES" are daily growing more popular, and, as they pay HALF PROFIT, every chemist should handle them. Six odours, enchanting and delicious. Retail 2d. each. Trade price, 12s. per gross. Packed in two-dozen (elasticated) show-boxes. Six dozen orders 6s., carriage paid.

"SWEET MAY BLOSSOM," a 6d. Tablet, packed in fancy Japanese basket. This is also a disinfectant, which no lady's wardrobe should be without, as it kills moths and prevents contagion. Price 3s. 6d. per dozen; half-dozen sample free 2s.

SOMETHING NEW.—Untarnishable Silver Price-Tickets for chemists, neat, novel, and attractive. Two series—M, 3d. to 3s.; N, 6d. to 6s. Price 1s. 6d. per gross box, assorted, carriage paid. Sample free.

WIDE-AWAKE CHEMISTS, make your own Proprieties. If you require genuine well-tried recipes, try BROOKS'S, which have stood the test over thirteen years and had an increasing sale. IT IS A FACT that a Chemist in Lancashire made 5l. profit in a month by one recipe. Following are specially recommended as a trial:—"TIC SPECIFIC."—Acts like magic. Cures after Tonga and Tikheel fail. There is a fortune in it. "TRIXY."—New, delicious, and enchanting bouquet. Suitable for local name perfume. "GLYCERINE CREAM."—Most elegant and excellent toilet requisite; softens and whitens the skin; most perfect preparation in the market.

A PHYSICIAN'S PRESCRIPTION FOR SPERMATORRHOEA.—Over 100 cases of this fearful disease have been cured by this remedy. It contains a mixture and two kinds of pills, with full directions for use. Original recipe cost Five Guineas.

Recipes 1s. 1d. each; three for 2s. 6d., post free. List of 400 others free.

TOM BROOKS, Chemist, Hornsey, LONDON, N.

H. P. TRUEFITT'S SPECIALITIES FOR THE HAIR.

Floral Extract, 3/6, 5/-,
10/6, 21/-

Egg Julep, 2/-, 4/-
CONCENTRATED

Egg Julep, 2/6,
5/-, 10/6.

Golden Fluid,
10/6, 21/-

EUXURON,

1/6.

&c.

Stimulating Lotion, 5/-,
10/6.

Astringent and Tonic
Lotion, 5/-, 10/6.

Quinine and Arnica

Hair Wash, 3/6,

5/-, 10/6, 21/-

Arnica Wash,

3/6, 5/-,

10/6.

&c.

EUCHRISMA.
Combines in one clear Fluid every valuable
Component both of a Hair Grease and Wash,
3/6, 5/-, 10/6, 21/-.

EAU RACINE.
For restoring the original colour of Grey Hair;
superior to all other hair-restorers, being perfectly
simple in its Components. Price 9/-.

An elegant Preparation for
the Hair and Beard.
Price 2/6, 3/6, 5/-, 10/6, 21/-.

BRILLANTINE.

H. P. TRUEFITT'S TONIC TOOTH BRUSH

(BY ROYAL LETTERS PATENT)

PRICE ONE SHILLING.

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R C TREATT

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IMPORTER OF

Musk Civet Ambergris Attar - of - Rose

ESSENTIAL OILS



Wholesale
and
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only.

APPLICATION

ON

QUOTATIONS

AND

PRICE LIST

COCKING'S JAPAN OIL OF PEPPERMINT.

Our Extra Steam Refined Oil is treble distilled and twice rectified by steam, by an entirely new process and in apparatus of our own invention, by which all those polymeric products of a tarry and resinous nature which are objected to by some consumers are extracted. It is of water-white colour retaining its full aroma, pungency, and strength, and guaranteed absolutely pure and soluble in spirits of wine.

COCKING'S JAPAN MENTHOL CRYSTALS.

Our Extra Steam Refined quality is in firm, hard, dry, and snowy-white crystals, entirely free from oily contamination, and therefore of the highest melting-point. As the original and largest manufacturers in the world of the true Japan Menthol, we guarantee our brand to be absolutely pure. Beware of substitutes. For full particulars, therapeutic uses, &c., see special circulars, to be had on application.

Sole Agents—JOHN BATT & CO., 39 OLD BROAD ST., E.C.

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'OTTO' PRINCIPLE. PINKNEY'S PATENTS

SINGLE ENGINES OF ALL SIZES FROM

$\frac{1}{4}$ TO 146 ACTUAL OR 170 INDICATED HORSE-POWER

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Methylated Spirits and Benzoline.



ABSOLUTE SAFETY.
EXTRAORDINARY
HEAT.
GREAT ECONOMY.
PERFECT
REGULATION.

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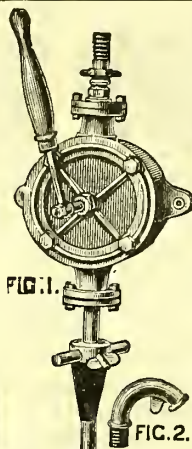
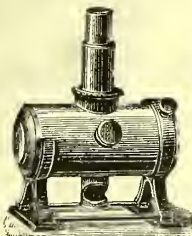


FIG. 1.

FIG. 2.

BUY THE BEST

OIL PUMP

AND SAVE

OIL, TIME, MONEY.

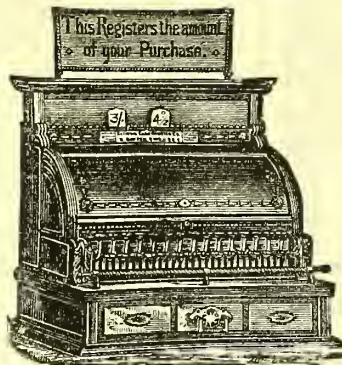
THOUSANDS IN USE.

Write for full particulars and prices of The
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Is a Never Tiring Sentinel, a
Silent Monitor, a Faithful
Guardian, a Devoted Friend,
a Hardworking Partner, a
Correct Cashier, and a Never-
Mistaken Bookkeeper.
It is Perfect in Make, Perfect
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Please Call and Examine at
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rooms,

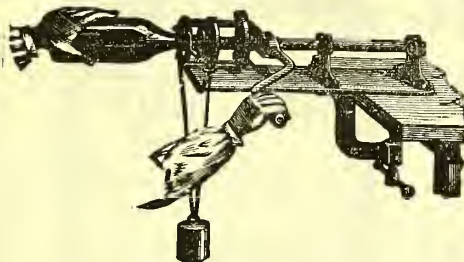
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Or send us a Post-Card, and
one of our Representatives
will call on you with a Sample
Register and explain our
System.

OVER 47,000 IN USE IN VARIOUS PARTS OF THE WORLD.

NEW CAPSULING MACHINE

The only Machine
which leaves no crease
or pleat on the
Capsule.



Can be fixed to any
Counter.
A single pull of the lever
is sufficient
to fix the Capsule.

Patentee—C. MELIN, 37 Crutched Friars LONDON, E.C.

ANDREW OHLSON,

PHARMACEUTICAL COPPERSMITH & ENGINEER,

EAST LONDON COPPER & IRON WORKS, 85 NEW ROAD, WHITECHAPEL.

Still, Nitre, Ammonia, Cloves, Al-
monds, Acetic, Mint, Lavender, Ap-
paratus for Distilled Water, Steam
Jacket Pans, Evaporating, Boiling,
Tilting, Citrate, Enamelled, &c.;
Vacuum, Miscellaneous, Oil Separ-
ators, Copper Measures, Percolators,
Hydraulic Tincture Presses, Sarsa.
Tanks with Coil.

Laboratories fitted up complete.



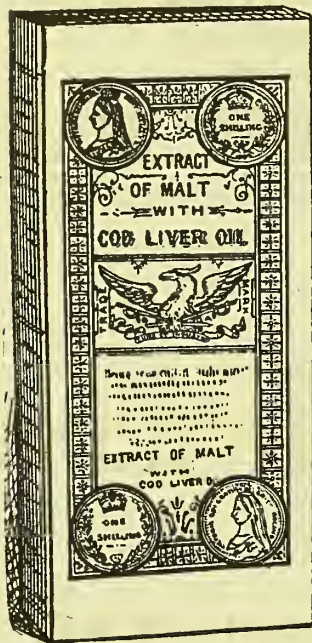
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"ARRAIGNER
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Established upwards
of 30 years.

Copper Still, with Pure Tin Coil in Tub, can be heated by Fire or Gas.

A FEW GOOD COUNTER LINES.

EXTRACT OF MALT WITH COD LIVER OIL.



During the last few years, Extract of Malt and Cod Liver Oil has become immensely popular with the medical practitioners and the general public.

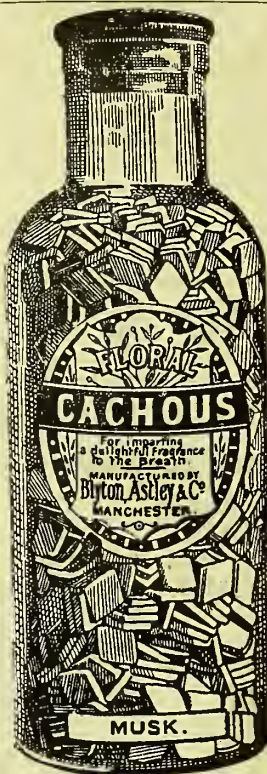
There are many preparations in the market, but Chemists may push this one with confidence, as it compares favourably in every respect with any of the higher priced goods.

PRICES.

1/- size, 8/- per doz.
2/- size, 15/- per doz.

EXTRACT of MALT (PLAIN)

Is also put up in the same style.



CACHOU PEARLS, AND Special Bouquet Lozenges

We invite your attention to these; the goods are made from the finest materials, and nothing has been spared to render them bright and attractive in appearance, whilst the flavours are fresh, mellow, and refined.

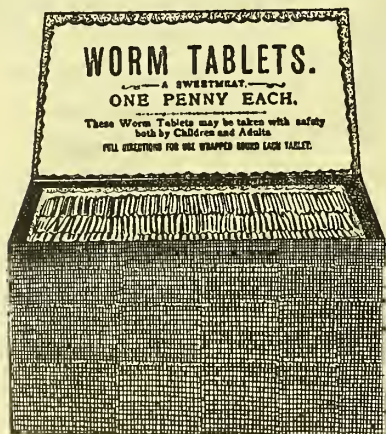
Packed in white glass bottles, with boxwood-top corks, and labelled neatly; a series of flavours, tastefully displayed, arrests the attention of customers; presents an attractive appearance, and tempts both the palate and the pocket.

FLAVOURS.

Eas. Bouquet.	Lilac.
Frangipannl.	Millefleurs.
Hawthorn.	Musk.
Heliotrope.	Rose.
Jockey Club	Violet.
Lavender.	

Price:—CACHOUS, 3/- per lb.; PEARLS, 2/6 per lb.

WORM TABLETS.

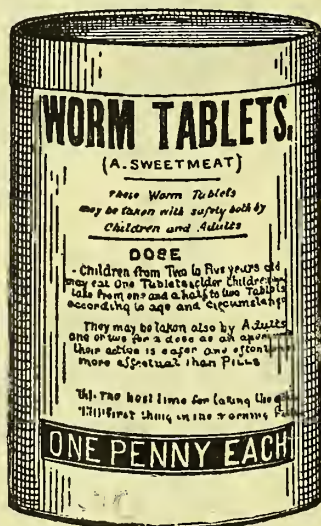


Buyers ordering three gross may have them packed either in boxes or in quarter, half, or one gross tins, as above.

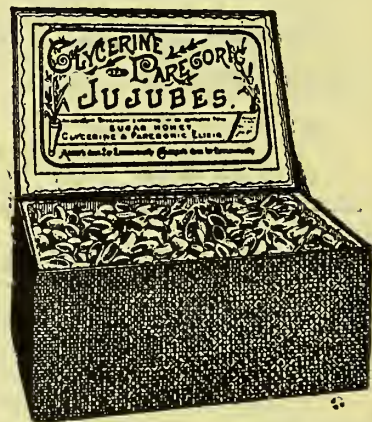
The difficulty of inducing children to take medicine has been effectually overcome by this line, as is attested by the increasing sale of these Tablets during the past twenty years.

PRICES:—

6/- per gross; Three gross, 5/6. Gingerbread Worm Cakes, 5/- per gross.



GLYCERINE & PAREGORIC PASTILLES (Patent No. 17213).



These we place before our customers for the third season. The demand is very encouraging, and demonstrates that the public are ever ready to appreciate any effort which is made to render the administration of medicine as palatable as possible. Each box contains eight pounds of Pastilles, and a liberal supply of handbills, window tickets, and neat box labels, so that they may be retailed from the bulk or offered in packages, as the vendor may wish.

8-lb. Boxes, 1/8 per lb.

MANUFACTURED BY
BLYTON, ASTLEY & CO., Manufacturing **EAGLE LABORATORIES, MANCHESTER.**
Pharmacists,

"LANOLINE"

Every Chemist

SHOULD USE

"LANOLINE" AS AN OINTMENT BASE,

AS IT

never turns rancid

admits of the admixture of any quantity of water;

confers stability and permanence on ointments prepared with it.

UNGUENTUM LANOLINI

is an Ointment

WHICH CONSISTS OF

"LANOLINE" and 30 per cent. of Soft Paraffin B.P.

UNGT. LANOLINI is comparatively inexpensive.

UNGT. LANOLINI is non-sticky.

TOILET "LANOLINE."

A SUPERIOR PREPARATION FOR THE SKIN.

IN TUBES CONVENIENT FOR USE IN

**SUNBURN, CHAFING, CHAPPING, REDNESS, AND
WRINKLING OF THE SKIN.**

"LANOLINE" and its preparations, Soaps, Pomades, &c., can be obtained from

BURROUGHS, WELLCOME & CO.

SNOW HILL BUILDINGS, LONDON, E.C.

SOZIO & ANDRIOLI

(Alpes Maritimes) **GRASSE** (France). [ESTABLISHED A.D. 1757.]

SPECIALITIES: Oils of Neroly, Lavender, Geranium (twice rectified on Rose Flowers), Thyme (red and white), Spike Lavender, Rosemary, Patchouly, Sandal Wood, &c., &c.

ONLY MAKERS OF THE CELEBRATED ORRIS ROOT OIL, crystallizing at +15° Réaumur.

Flowers Pomades at the highest possible Saturation. Best Brand for Orange Flowers and Rose Water. Concentrated Essences, Sweet Almond Oil, &c. Stock kept in London.

London Agent—MR. FREDK. BOEHM, 4 CULLUM ST., E.C.

Heinrich Haensel's TERPENELESS CONCENTRATED Non-Clouding OIL OF LEMON

Oleum Limonis sine terpeno (Heinrich Haensel).

Spec. gravity 0.9003 (vide Professor Dr. Geissler's report in 1881). Boiling point between 225° and 235° C. Absolutely soluble in diluted spirit. Purest and most powerful Aroma and Taste. Pre-eminently suitable for making Soluble Essence of Lemon, for which **EVEN PROOF SPIRIT** may be used. $\frac{1}{4}$ drachm of Heinrich Haensel's Terpeneless Concentrated Non-Clouding Oil of Lemon (dissolved in same quantity $\frac{1}{4}$ drachm, alcohol 60 o.p.) is more than sufficient to 1 gallon of Syrup of extra-superfine quality for making Lemonade of a remarkably pure and sweet Lemon bouquet.

CAUTION.—Beware of useless imitations which are being offered under similar names but are not completely free from terpene, and therefore of much less solubility and less value.

FOR FURTHER PARTICULARS APPLY TO

WILLIAM POPPELREUTER, 54 PORTLAND STREET, MANCHESTER.

SPECIAL OFFERS. MARVELLOUS VALUE.

VANILLOES, 9s. and 12s. lb. **TONQUIN BEANS**, 2s. and 3s. 6d. lb.
SENNA LEAVES, 1 $\frac{1}{2}$ d. lb. in 56-lb. bags. **POWDERED ORRIS**,
1s. 3d. lb., 120s. cwt. **QUININE**, 1s. oz., 100-oz. tins, 11d. **CAMPHOR**
(Refined), bells or flowers, 1s. 7 $\frac{1}{2}$ d. lb. **GUM**, good, strong, and thoroughly
soluble, 6d. lb., 50s. cwt.

Above prices are Net Cash, ex our Warehouse, and subject to being Unsold. Other lines at proportionately low prices.

PRICE LIST FREE. SEND A TRIAL ORDER TO

G. VOGT & CO., WHOLESALE AND EXPORT DRUGGISTS, LONDON, E.C.
28 WILSON STREET,
TELEGRAMS—"ALSACE LONDON."

BARCLAY & SONS, LIMITED.



We hold a large stock of the following seasonable goods. Orders for any of these will oblige.

ENEMAS. SPONGE BAGS. SPONGES.

PHOTOGRAPHIC DRY PLATES, &c. &c. SPRAYS.

TOBACCO IN PACKETS, at Makers' Prices.

FILTERS. FLESH GLOVES. TRUSSES.

TEETHING TEATS, "LILY," "SPENCE'S," &c., &c.

ELASTIC STOCKINGS, Superior Make.

TEATS, TUBING, &c., &c.

SEIDLITZ POWDERS, B.P. strength (full weight), 1/- boxes, 5/6 doz.

95 FARRINGDON ST., LONDON, E.C.

ESTABLISHED UPWARDS OF A CENTURY.

A PROBLEM.

WHAT is it that constitutes an Extract of Malt which is scientifically perfect in every respect? This question introduces an interesting problem teeming with highly practical suggestions.

The following seems to designate what is absolutely essential to a superior Extract of Malt:—

(1) It should be prepared from the very best winter barley, and contain all the nutritive principles of the grain. This is imperative.

(2) It should be evaporated *in vacuo*, and not in an open pan. This is indispensable; otherwise instead of being pleasant the malt will possess a burnt or tarry taste and smell.

(3) No substitution should be allowed—as of other cereals for a part of the barley, or glucose for a part of maltose.

(4) There must be absolute purity and an absence of all adulterants.

(5) It should be rich in diastase—the digestive ferment which converts starch into sugar.

(6) It should be of substantial consistence, or it will be liable to decompose.

(7) If the heat in the process of manufacturing be raised too high, the diastase will be destroyed.

(8) No fermentation whatever should take place, or the maltose will be partially converted into alcohol, carbonic acid evolved, and a species of beer formed.

It is thus seen that the supericrity of a malt extract does not rest with one thing alone, but with many, such as the taste, nutritious properties, assimilability, perfect purity, diastase, &c.

Any extract of malt which possesses a treacly or mawkish taste contravenes to that degree the excellence of the preparation. All malt extracts in which alcohol has been formed are of little value, and should be discarded.

Admittedly the peculiar nature and composition of barley specially fit it for the manufacture of malt extract. Its worth has been recognised from time immemorial, and if there were anything which would yield a better malt extract than barley it would soon be known, and the use of this grain abandoned. But there is nothing better, nor anything half so good. And whenever any other cereal is substituted for the barley, to that extent is the malt extract made of something ostensibly inferior to barley for the purpose.

There is a story of a little newsboy who called at the surgery of a physician “lean and long.” The doctor was out, but his better half was at home, and in seeking for a penny to pay for a paper she opened the door of a closet, disclosing thereby a skeleton. The boy no sooner caught a glimpse of the skeleton than he scampered out of the surgery, frightened through and through. The next day the physician wanted, a paper, and descreying by chance the self-same boy, beckoned to him. “*No yer don’t*,” exclaimed the lad, shaking his head; “*I know yer, if you have got yer clothes on!*”

Similarly the claims for a substitution mixture (wheat and oats) are so lifeless from a logical standpoint that the keen and wide-awake would at once place them among the senseless and useless—in fact, the dried bones.

The Kepler Extract of Malt is made from pure barley only, and enjoys the soundest approval of the medical profession throughout the world.

The *Lancet* says:—“It is the best known and largest used.”

The *London Medical Record* says:—“We have tested it, and it is undoubtedly the best.”

The *Medical Press and Circular* says:—“It is the most palatable and easily digested.”

The Kepler Extract of Malt and the Kepler Extract of Malt with Cod-Liver Oil (Kepler Solution) supplied to the Trade in bottles containing $\frac{3}{4}$ lb. and $1\frac{1}{2}$ lb. at 20s. and 36s. per doz. Retail prices, 2s. 6d. and 4s. Supplied by Chemists throughout the World.

BURROUGHS, WELLCOME & CO., Snow Hill Buildings, LONDON, E.C.

ICHTHYOL "TABLOIDS."

Each "Tabloid" contains $2\frac{1}{2}$ grains.

THE growing interest shown by the Medical Profession in this very interesting compound, and the successes already recorded both from its internal as well as external use, make it absolutely necessary that the pharmacist should know that for the internal administration of this drug, the new Ichthyol "Tabloids" present the best means. The objectionable odour of the Ammonium-Ichthyol is completely masked, while the outward presentation is positively inviting, being perfectly coated with pure white sugar.

Ichthyol has been extensively prescribed in the treatment of Eczema (dry and weeping), Acne Rosacea, Urticaria, Erythema, in various forms of Rheumatism, Rheumatoid Arthritis, Lumbago, Sciatica, etc., etc.

The "Tabloids" supplied to the Trade in bottles of 24 and 100 each, at 7/6 and 24/- per dozen respectively.

BURROUGHS, WELLCOME & CO., SNOW HILL BUILDINGS, LONDON, E.C.

Telegraphic Address—"Francis London."



TRADE MARK.

HEARON. Analytical and
Manufacturing Chemists.

PURE **SQUIRE** & **AND**
DRUGS **CHEMICALS.**

ESTABLISHED AT
95 BISHOPSGATE ST.,
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FRANCIS,

MAKERS OF

CONCENTRATED LIQUORS FOR SYRUPS.

CONCENTRATED WATERS, 1 TO 40.

GRANULAR EFFERVESCENT SALTS.

Pill Consistence,
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The Pharmaceutical Society of Ireland.
South African Pharmaceutical Association.
The Pharmaceutical Association of New Zealand.
The Central Association of New Zealand.
Otago Pharmaceutical Association.
The Pharmaceutical Society of Queensland.
The Pharmaceutical Society of South Australia.
Tasmanian Pharmaceutical Society.

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Summary.

WE print a portrait of the late Professor Bedford, of New York, and give some particulars of his life.

BARON V. ROSENBERG writes from Madras urging the advantages of the proposed cinchona syndicate, and expressing his confidence in its success.

WE print the results of the pharmaceutical examinations held last month. The failures in the Major and Minor in London were exceptionally heavy.

WE give a report of the annual meeting of the South African Pharmaceutical Association, at which there was a discussion of trade matters in the Colony.

A PRELIMINARY list of papers to be read at the Pharmaceutical Conference in Edinburgh has been issued, and will be found in our Commentary. It is somewhat short.

WE devote several pages to a report of the meeting of the American Pharmaceutical Association, which includes the decision in regard to cutting, abstracts of the more important papers, and a portrait of the President.

WE comment upon Sir Archibald Geikie's presidential address to the British Association, which was in a large part devoted to a discussion of the geological and physical theories regarding the age of the earth.

UNDER "Medical Progress" we group some of the thoughts from addresses given to the British Medical Association. It will also be noticed that the exhibitors at the museum had some hundreds of medical men as their guests at a smoking-concert, when Mr. Lawson Tait made some notable utterances from the chair.

THE National Association of Medical Herbalists held their held their annual meeting at Liverpool last week, whereat Mr. A. R. Fox, of Sheffield, the President, detailed the steps which have been taken to maintain the integrity of the body, and, in the course of debate, members expressed themselves determined to show that they have no connection with quackery.

OUR Legal Reports include an important Inland Revenue case, heard at Stockport on Wednesday. A chemist was charged with the use of iodine liniment made with methylated spirit, but, on the ground that the evidence only proved possession, the case was dismissed. An important judgment on contracts "in restraint of trade," a question of aerated-water empties, and an application of the Indecent Advertisements Act to a nervous-debility announcement are also among the cases reported.

PRINCIPALLY routine business, mainly in reference to educational matters, was transacted by the Pharmaceutical Council on Wednesday. Mr. H. A. D. Jowett, the Bell scholar, comes out well with several school medals, the Pereira medal, and the Redwood research scholarship. The Research Laboratory has got 150*l*. from the Royal Society. It was announced that the Society had proceeded against a large firm, not chemists, in regard to the sale of chlorodyne, and that penalties had been paid. The Council will send out a circular referring to this case to chemists and others.

POPULAR BOOKS FOR CHEMISTS.—The following are published at the offices of this journal, and may be obtained from most of the wholesale houses at the published prices:—

"The Art of Dispensing," 3*s*. 6*d*. ; by post, 3*s*. 10*d*.
Alpe's "Handy-book of Medicine-stamp Duty," 2*s*. 6*d*. ; by post, 2*s*. 9*d*.

Proctor's "Pharmaceutical Testing," 2*s*. 6*d*. ; by post, 2*s*. 9*d*.

"Veterinary Counter-practice," 3*s*. 6*d*. ; by post, 3*s*. 9*d*.

These books have been written for daily use, and their successful publication has proved their value to business men.

PHARMACISTS ORGANISE IN TURKEY.—After a ten-years' interval the Pharmaceutical Society of Constantinople has been revived, with a membership-roll containing 210 names—a number which, considering Turkish conditions, argues well for success. Bonkowski Bey is president, M. André Lefaki vice-president, and Dr. Pierre Apéry general secretary of the Association. The former organisation died for want of interest.

SOAP-ADULTERATION IN GERMANY.—The executive of the German union of soap-makers have called the attention of the Prussian Minister of Industry and Commerce to the growing frequency with which adulterated soaps are now advertised. The most common adulterants are said to be starch-flour, tallow, heavy spar, kieselguhr, common salt, mineral lubricating-oil, and water. The Minister has asked the executive to submit proposals for the abatement of the evil.

English News.

Dyspepsia and Chlorodyne.

At an inquest regarding the death of Mr. L. B. Hackman, a professor of music at Wimbledon, held last week, it transpired that deceased had suffered from dyspepsia and had left a letter which indicated suicide. Dr. O. W. Berry stated that deceased was of a highly nervous disposition. He had found him partially unconscious from the effects of what he afterwards discovered to be an overdose of chlorodyne. The Coroner said that under a recent decision bottles containing chlorodyne had to be labelled "Poison," and it was apparent that the deceased must have made up the mixture himself, as the medicine-bottle produced bore no label. Verdict, suicide whilst temporarily insane.

Claim for Dilapidations.

Mr. Arthur Hill, chemist, Cheltenham, has succeeded in an action against one of his tenants, a commercial traveller, for dilapidations in a house which he rented from Mr. Hill. The claim was for 4*l.* 5*s.*, and defendant paid 1*l.* 9*s.* 6*d.* into court. Judge Ellicott gave judgment for plaintiff for 3*l.* 2*s.* 9*d.*, or 1*l.* 13*s.* 3*d.* over and above that paid into court.

Dividend.

The directors of the Sanitas Company (Limited) have declared an interim dividend for the six months ended June 30, at the rate of 10 per cent. per annum.

The Wrong Bottle.

At Southsea, near Wrexham, a man has died from the effects of belladonna liniment, which he drank, thinking that it was for internal use. "No blame was attached to anyone," said the Coroner's jury.

At Tyldesley, last Friday, Ada Marsh, two-year-old daughter of a spinner, mistook a bottle of spirits of ammonia for water, and drank a portion of the contents, dying in great agony.

Poison in the Teapot.

At the Leeds Assizes on Thursday, July 28, Martha King, 36, a married woman, was sentenced to 18 months' hard labour for attempting to poison her daughter, a child of seven, with carbolic acid, which she said was tea, but the child was too 'cute for her and did not taste it.

Harriet Rayment, a domestic servant, has been committed for trial at Maldon for attempting to poison her mistress, a Miss Jane Bulley, who found that the tea which accused served had a very peculiar odour. The teapot was taken to Mr. Arthur W. Heaver, chemist, who stated that it contained phosphorus paste. He had also supplied prisoner with a pennyworth of rat-poison, and gave evidence to that effect at the Petty Sessions.

Pharmaceutical Education in Newcastle.

A meeting of the Council of the North of England Pharmaceutical Association was held in the Durham College of Science on Wednesday, July 27, when the reports of the Professors of Botany and Chemistry and the Lecturer on *Materia Medica* for the session 1891-92, were received and adopted. The reports stated that the attendance of students had been satisfactory, and that good work had been done, especially in the practical botany class. The prize in botany was recommended to be awarded to Mr. Thomas Fell, and the prize in *materia medica* to Mr. John Harrison. The chemistry prize was merged into the general college prizes. A syllabus of lectures for the session 1892-93 was drawn up and approved, and will be published before the commencement of the session in October next.

National Association of Medical Herbalists.

The annual conference of the National Association of Medical Herbalists of Great Britain was held last week in the Imperial Hotel, Liverpool, the President (Mr. A. Russell Fox, Sheffield) in the chair. The other members present were:—Messrs. S. Halliday (Cleckheaton), W. H. Blunt (Birmingham), T. Ogden (Dewsbury), F. W. Crick (Bedford),

W. Parker (Sheffield), secretary; Alfred Thornton (Bradford), W. H. Parry (Liverpool), Job Mansell (West Bromwich), H. Potter (London), C. Darlington (Sheffield), W. H. Webb (Southport), G. T. Stubbs (Stockport), C. Burden (Worcester), J. C. Stott (Barnsley), R. Newell (Fodmorden), J. Rayner (Hull), Clayton (Middlesbrough), Tildesley (Rotherham), E. Haigh (Wakefield), J. S. Ward (Sheffield), H. Hanson (Halifax), Howshall (Longton), Thornton (Wakefield), G. Rotherham (Liverpool), E. Cross (Birmingham), J. White (Blackburn), Thomas Butterfield (Dewsbury), W. Derby (Chowbent), and C. Darlington (Sheffield). The President, in the course of his address, said the first two objects of their Association were (1) to promote and encourage the study of the vegetable kingdom in its application to public health, and (2) the diffusion of a knowledge of the therapeutical properties of plants. What they asked was that the medical rights of the people should be confirmed, and that whoever they (the people) should call in to attend them should have a legal right to do so, irrespective of school, professional caste, or therapeutic belief. Having referred approvingly to the organisation of the Medical Botanic Training College of Great Britain, he alluded to the recommendation of the Royal Commission on Vaccination to do away with the imposition of cumulative penalties in respect of the same child. This he regarded as a step in the right direction. Further, referring to the extent to which the penal clauses of the Apothecaries Act affected them, he said his researches had led him to believe that those penal clauses never had applied to herbalists so long as they practised without the assumption of medical titles. What they must do was to procure for themselves the same liberty and privileges which the allopaths enjoyed. This would not be done by petitions for the repeal of old Acts, but by showing the Government that they were promoting such schemes of education and providing, by means of colleges, such an education that their students would be able to compete with the allopaths in properly carrying out their system of medicine. The Secretary then read the parliamentary report, which stated the progress that had been made in the matter of registering the Association, and on the motion of Mr. Potter, seconded by Mr. Parry, the thanks of the Conference were awarded to those members of Parliament who had expressed themselves favourably to the plans of the Association for registration and their right to practise as medical herbalists. Mr. Parry moved, Mr. Ezra Thornton seconded, and it was resolved, that it was not advisable for members to use medical titles, unless the said titles were English and the members were legally entitled to them, until they were registered and recognised by Parliament. In the course of the discussion, the quacks who practise under the assumed name of herbalists were indignantly denounced, and the disgrace which they sometimes brought on the profession was pointed out.

Mr. A. Russell Fox was then re-elected, for the third time, President, and the other officers were also reappointed. It was decided that the next annual conference should be held at Derby.

Free Fly-papers.

Some chemists in Birmingham have adopted what a local paper considers a questionable method of advertising their business—namely, the free distribution of fly-papers bearing their names and addresses. These papers are conspicuously marked "Poison" and "To be kept out of the way of children and domestic animals." The fly-papers may or may not be dangerous, but it is hardly wise of chemists to set an example of recklessness in the distribution of poisons.

A Chemist's Apprentice Killed in his Business.

A young man named James Foster Butterfield, aged 19, apprenticed with Mr. Gatenby, chemist, of Bridlington, has died in a very sad manner. On July 18 he was dissolving some resin and turpentine in a pan over the fire in the scullery. The compound got on fire, and deceased, fearing that the house might be set on fire, carried the pan across the scullery and threw it into the yard. In trying to shut the door his foot slipped, and he fell forward amongst the burning liquid. Prompt assistance was rendered, and the flames speedily extinguished, but not before the young man had been most shockingly burned. For some time he progressed satisfactorily, but on the 29th, owing to ulceration of the wounds

on the left arm, one of the veins commenced to bleed copiously. The poor fellow became utterly exhausted, and succumbed about 6 A.M. on Saturday.

Women in Medicine.

The British Medical Association almost unanimously resolved last week to expunge from its by-laws the words, "No female shall be eligible for election as a member of the Association." The motion was submitted by Dr. Galton, and seconded by Mrs. Garrett Anderson. How the seconder happens to be a member of the Association we cannot tell. Perhaps she got in before 1878, when the rule was passed with enthusiasm. Mrs. Anderson's name has been on the Medical Register since 1866.

Trips and Treats.

On the invitation of Mr. Alderman Cox, J.P., the head of the firm of original pill-coaters, the members of the Brighton Junior Association of Pharmacy had a trip on the Arun, in Mr. Cox's steam-yacht the *Sissie*, on Wednesday of last week. The party left Brighton at 10.15 A.M. by train, and joined the yacht at Ford Junction. The weather was charming, and the trip up the river was much enjoyed. Lunch was provided at Ambsley, and dinner at the Bridge Hotel, Arundel. Mr. Alderman Cox occupied the chair, and Mr. A. E. Coleman, President of the Association, was in the vice-chair. Cordial speeches were made, and hearty thanks to the Alderman for his kindness. The party got back to Brighton about 11 P.M.

A party of Messrs. F. Darton & Co.'s employés, numbering about fifty, had dinner at the King's Head, Rochester, on Saturday, July 30. There were sports in the morning, and a drive by coaches to Basley in the afternoon. Messrs. F. A. Darton and F. G. Phillips, the partners in the firm, were present, and the speeches made after the dinner showed how cordial were the relations between them and their staff.

The Druggists Fête the Doctors.

A smoking-concert was organised during the meeting of British Medical Association at Nottingham by the representatives of the exhibitors at the Museum, the medical visitors being invited. The Holborn Restaurant in St. James's Street was lent for the purpose by Mr. Johnson, the proprietor, who had turned the handsome hall into a flower-garden by the time the large company assembled. Mr. Samuel Stevens, the popular chief constable of the town, was announced to occupy the chair, but in his unavoidable absence the honorary secretary of the Concert Committee was chosen for the post. This was Mr. H. Booth-Fuller, the representative of Messrs. Lynch & Co., of Aldersgate Street, London. Among the singers were the Chairman, Mr. Lane (a son of Messrs. S. Maw, Son & Thompson's representative), Mr. A. J. Maple (Jeyes' Sanitary Company), and Mr. Ingram (Seabury & Johnson). When the concert had proceeded well on its way, Mr. Lawson Tait, the eminent surgeon, of Birmingham, with Professor Hingston, of Montreal, and several other well-known members of the profession, arrived from a dinner. Mr. Fuller vacated the chair for Mr. Tait, who was received with the utmost cordiality. Altogether the attendance numbered between 400 and 500, mostly doctors, though there was a fair sprinkling of the chemists of Nottingham present. Mr. Charles Lauder, of Mr. Wilson Barrett's company, also came in during the evening, and gave a couple of recitations in splendid style. Mr. Lawson Tait, in proposing thanks to the stewards, made a witty speech on the progress in pharmacy. There was no chance now, he said, for the mixture and pill; people would have tabloids, and he was always pleased to have a visit from Burroughs & Wellcome's traveller, who, he thought, must be a very happy fellow. He had an inclination himself of abandoning the profession and applying for a post as their representative. People nowadays had tabloids and tabloid triturates so very pleasant that it was really a treat to be ill. He remembered landing some years ago at Montreal, and the first thing he came across was those abominable peptonising-powders of Fairchild, which had been so efficient in the treatment of dyspepsia that medical attendance was not now a necessity. He thought Messrs. Lynch & Co. were quite as useful as Burroughs, Wellcome & Co. He took great interest in their business, for they made such capital

scissors and instruments. Mr. Fuller was called upon to reply, and Professor Hingston and other doctors also made speeches.

A Transfer Agency Case.

In the Westminster County Court on July 28, before his Honour Judge Bayley, Mr. Turner, a medical transfer agent of the Strand, sought to recover £1 19s. for out-of-pocket expenses in endeavouring to obtain a partner for Mr. Purkiss, a dispensing doctor at Brentford. The plaintiff's case was that in June last year the defendant called upon him and gave him instructions to procure a partner. It was agreed that if the matter was carried through the plaintiff should have the usual commission, and that if he was unsuccessful he should be paid a fee of a couple of guineas. After several months the plaintiff introduced a gentleman named Sinclair, who was willing to become a partner on certain terms. Several meetings took place, and ultimately a draft agreement was drawn up by the plaintiff's solicitor, but it was objected to by the proposed partner; and a second was prepared, but that also was objected to, and subsequently the whole matter fell through. By that time solicitors' costs to the extent of 44 17s. had been incurred, and it was for that and the two guineas' fee that the present action was brought. For the defence, it was admitted that a promise of two guineas had been made to the plaintiff for his services in the matter, and that sum had been tendered to him, but he declined to take it, and it was now paid into court. It was contended that there never was any promise to pay any charges beyond the fee of two guineas. His Honour said he totally failed to understand how it became necessary to have an agreement prepared and incur solicitors' costs before the transaction was completed. The plaintiff was engaged to find a partner, and if the matter had been completed he would have been paid the usual commission, but as no partnership was brought about he was not entitled to sue for any solicitors' costs in the matter. He gave judgment for the defendant with costs, but there would be an order for the two guineas which had been paid into court to be paid out to the plaintiff.

The Norwich Arson Case.

At the Norwich Assizes, a lad named Green pleaded guilty to an indictment charging him with having set fire to a shop of his employer, Mr. J. C. Penney, chemist, Norwich. The Judge sentenced the prisoner to one month's imprisonment, and expressed a hope that the governor of the prison would keep him as much as possible from the other prisoners.

Damaging Belladonna plants.

At Midhurst Petty Sessions, Benjamin Sylvester and Henry Pink were charged with damaging belladonna-plants growing in Uppark, to the amount of 2l. It was proved that a third of a ton of the plants had been partly cut and partly pulled up. Defendants pleaded guilty, and were each fined 1l. 18s.

The Weekly Half-Holiday.

Eleven chemists of Barnsley have agreed to close their establishments on Thursday afternoons at 1 o'clock.

A New Belt Remedy.

At the Ottery St. Mary Petty Sessions on Thursday of last week, William Henry Hillman, an old man residing in the town, was charged with obtaining 12s. by false pretences from William Street on April 9. The evidence showed that the latter was ill, and his wife, hearing of defendant's "doctoring," went to him, and he offered to cure her husband for 1l. Twelve shillings was paid on account, and defendant gave some papers, which the sick man was to wear in a belt around his body, as "a certain cure." The husband not getting better, defendant supplied him with medicines and powders, which the patient threw away. Defendant then stated that seven witches were working against the sick man, and that a neighbour was keeping him from being cured by "working on the moon." The defendant was committed for trial, bail being allowed.

A Chemist Charged with Theft.

At Carlisle Town Hall on Friday, John Ferguson, chemist, of Henry Street, was charged with stealing six plates, five

glasses, six forks, four knives and two mustard-pots from the Citadel railway station on July 21, value 5s. A signalman named Macdonald said he saw the prisoner several times lift up the lids of some luncheon-baskets which were standing on the platform, take something out and put under his coat. The policeman subsequently found the articles mentioned at prisoner's house. For the defence, Dr. Hair deposed that the accused had suffered from heart-disease, sleeplessness, violent pains in the head, and right-side paralysis. He was very eccentric, very excitable, and very erratic in his conduct. Witness had warned prisoner's relations about his peculiar way. He was quite satisfied that he did not know what he was doing on the night in question. Prisoner pleaded guilty, and added that he did not know what he was doing at the time; and the Justices, after a consultation, dismissed the information because of the trifling character of the offence. Mr. Ferguson was, however, ordered to pay the costs, which amounted to 4l. 5s.

Burglaries.

On Friday evening of last week a robbery of a daring character was perpetrated at the shop of Mr. S. W. Evans, chemist, Middleton. In the afternoon a respectably-dressed young fellow entered the shop and asked for a draught, in payment for which he tendered half a sovereign. Having received his change the man left the shop, but returned almost immediately and stated that he had dropped a two-shilling piece down a trapdoor which leads from the pavement into the cellar. Mr. Evans at once went into the cellar to regain the coin, the man continuing to stand over the trapdoor whilst Mr. Evans looked for it. After searching for some few minutes the man exclaimed, "Oh, how stupid; I have the two-shilling piece in my hand." The sequel was at closing-time, when Mr. Evans discovered that his cash-box was missing. It contained about 9l. and some documents, and was afterwards found with the contents (minus the cash) in a hayfield at Stanniclife.

The shop of Messrs. A. & J. R. Power, chemists, of High Street, Tonbridge, has been broken into, but, fortunately, the thieves were disappointed of a large haul, as the contents of the till did not amount to more than 20s. which had been left for change, and the other property in the shop did not appear tempting enough to purloin. In the wine and spirit department, however, the marauders levied on two bottles of the best spirits and two boxes of cigars, as well as helping themselves to what spirits they found in the decanters.

Pharmaceutical Competitions in Manchester.

As stated in our Supplement last week, the Council of the Manchester Pharmaceutical Association announce that, through the kindness of the treasurer to the Society, Mr. William Stones, they are enabled to offer for competition among the apprentices and assistants of Manchester and district a number of *Herbaria* of medicinal plants, each containing sixty specimens. It is proposed to hold two examinations—one for apprentices and assistants under 21 years of age, and one for assistants over 21 years of age—an award being made to every competitor obtaining more than a certain percentage of marks. The competitions will be open to all apprentices and assistants whose masters are members of the Manchester Pharmaceutical Association. They will be held during the first week in October, 1892, and intending competitors are requested to send in their names to the Secretary (Mr. A. Blackburn) not later than September 19. The examinations will consist of written papers on the following subjects:—*Junior Examination*—Elementary Chemistry, embracing the chief characters of the Metals and Non-Metals and their Salts, the commoner Compounds of Carbon, and the principal Laws of Chemistry; Elementary Botany, including Morphology and the chief facts in Vegetable Physiology; Pharmaceutical Latin—Translation of Prescriptions and Extracts from Pharmacopœias; the Metric System of Weights and Measures; an Essay of about 250 words upon a selected popular topic. *Senior Examination*—The Translation of Latin and English Prescriptions, and a description of the best methods of dispensing them; Pharmacy: The modes of Preparation, Characters, and Composition of the *Aqua*, *Glycerini*, *Linimenta*, and *Unguenta* of the British Pharmacopœia; Posology: The Doses of the Poisons scheduled in the Pharmacy Act, 1868, and of their Official Preparations.

Irish News.

The Office of the Registrar

of the Pharmaceutical Society of Ireland will be closed from August 5 to August 21 inclusive.

The Beautifying Electric Cure.

A voluminous advertisement has appeared in the Dublin papers announcing, with considerable lack of modesty, that Professor Moross, M.E., is about to favour Dublin with his presence, and, to use the terms of his advertisement, to display "his powers as a human salamander."

The Professor announces that his plan differs from the usual electric system as follows:—

"I receive in my own person the poisonous products of the electricity, the sulphuric acid and the dichromate of potash, while the patient receives only its healing virtues. These acids are 'beautified' in my body."

One of the Dublin evening papers has raked up the previous history of the Professor, who has in consequence suddenly disappeared.

Pharmaceutical Assistants' Examination.

The following were the questions set in the examination, conducted in July by Mr. J. J. Bernard, M.P.S.I.

1. What is glycerine? Give the preparations in the Pharmacopœia into which it enters.

2. State accurately how mist. seuuæ comp., pil ferri (Bland's), tinct. strophanthi, and ungt. conii are prepared, and give ingredients in each.

3. Mention the linctuents which do not contain camphor, and give ingredients and instructions for preparing lin. sinapis co., lin. potass. iodid., c. sapone.

4. Enumerate the pills, powders and tinctures of the Pharmacopœia which contain opium. Give strength and dose of each.

5. Give the maximum dose of oil of savin, extract of belladonna, arsenious acid, arsenii iodidum, extract of stramonium, elaterium, phosphorus, liquor truitrini.

The Council Election.

The druggist and pharmacist parties are already beginning to circularise the voters in regard to the next Council election in October. One circular, signed by Mr. W. F. Wells, jun., has come into our hands. It intimates that a strong effort is being made by a wholesale firm in Dublin to put off the six pharmaceutical chemists who retire, and to put in their place six druggists. If this is done, Mr. Wells says, it will give the control of pharmacy very largely into the hands of those whose trade interests are quite opposed to the best interests of pharmacy. The present Council have done good work to protect the qualified men and to advance the Society. He urges pharmaceutical licentiates to join the Society and to strengthen the hands of the Council, otherwise the druggists may be returned.

Changes on the Council.

At the meeting of the Council on Wednesday, Mr. W. Robinson, M.P.S.I., of Kingstown, Vice-President of the Society, having resigned his seat on the Council, was unanimously elected examiner in practical pharmacy. There were eight other candidates. Mr. R. J. Downes, of Lower Baggot Street, Dublin, was elected a member of the Council in the place of Mr. Robinson, resigned. Mr. G. D. Beggs, of Dalkey, was elected Vice-President in the place of Mr. Robinson, resigned. As the result of the whip by the druggist division of the Council, fifty druggists were proposed as associates of the Society. Only four or five pharmaceutical chemists were proposed as members.

Scotch News.

Dundee.

It is understood that the Scotch University Commissioners are to recommend that the whole of the St. Andrews University

medical course should be given at University College, Dundee, which is affiliated to the University. The Chair of Medicine at St. Andrews will be removed to Dundee. The effect of the change will be to extend the present partial medical course at Dundee University College to a complete one, but considerable endowments will be necessary before this is fully effected.

Mr. William Doig, chemist, High Street, an ex-bailie of the town, is the subject of a biographical sketch in a local weekly. Mr. Doig has been in business in the town for thirty-one years.

Jaunts.

That is Scotch for "banquets," and there are two to record this week. The employés of Messrs. W. Paterson & Sons, Aberdeen, drove to the foot of Benachie the other Saturday and went to the top after luncheon, although it was "sumptuous." A very enjoyable day was spent. A Forfar correspondent, in a naïve note written on July 27, tells us that the chemists of the town (with one exception) agreed to close at 10 A.M. (day not stated) in order to give their employés a day's holiday. They went to the Den of Airlie, a famous place for pleasure, and took dinner and a photograph there, then visited the Slugs of Achrannie, returning to the Den for tea. The drinks were D. F. & Co.'s and Smith's waters, the gift of the makers, who were remembered with three cheers before the party started for home. Mr. A. H. Simpson piloted the affair, which was quite a success.

Glasgow Parish Medicines.

The yearly accounts for the Glasgow City Parochial Board were submitted to the Board on Tuesday. They show that the parish medical expenditure was 3589*l.* 18*s.* 6½*d.*, an increase of 500*l.* odd over the previous year. Medicines and medical appliances cost for indoor 664*l.* 7*s.* 1*d.*, and for outdoor poor 284*l.* 7*s.* 1½*d.*; the salaries for medical officers came to 1,180*l.*, and the apothecary and his assistants were paid 190*l.* 9*s.* 4*d.* (Mr. John R. Peacock, the chief apothecary, gets 135*l.*). During the past month 6230 prescriptions were dispensed in the Parliamentary Road, while other 259 were made up as follows:—The Glasgow Apothecaries' Company, 136; Messrs. J. & R. Rodman, 63; and Mr. D. P. Walker, 55. Mr. Peacock and his assistants are to get a holiday, and during their absence a qualified druggist will be put in charge.

Children Poisoned by Valonia-nuts.

Last week four children, residing in the vicinity of the harbour of Glasgow, whose ages ranged from two to nine years, consumed a quantity of valonia-nuts, which they had picked up at one of the berths, and two of them have since died.

A Chemist Charged with Attempted Murder.

Mr. Aquila Waterhouse, chemist and druggist, Sauchiehall Street, Glasgow, and formerly of Chapel Place, Ramsgate, Huddersfield, Westtown (Dewsbury), and Bradford, has been arrested on a charge of shooting with intent to kill David Henry Hirst, grocer, of Lindley. It appears that Mr. Hirst for a long time managed the affairs of prisoner's uncle, who, when he died, left the whole of his property to him, subject to life-annuities to be paid to the testator's sisters. This gave great offence to the prisoner, who called on Mr. Hirst, and made proposals that the property should be divided, so that he (the prisoner) should have a share. Mr. Hirst, however, refused to do this, whereupon the prisoner took a revolver from his coat-pocket, and fired at Mr. Hirst, but, fortunately, missed him. Mr. Hirst and the prisoner then closed, and in the struggle the revolver was wrested from the prisoner who fled, and was subsequently arrested in Glasgow. The affair distressed Mr. Hirst to such an extent that he afterwards committed suicide by cutting his throat.

M. PASTEUR was the lion of the last meeting of the Academy of Sciences. He assured inquirers that his rest at Garches had done him good, and that the various maladies which the Parisian press had "so generously lent him" only existed in "the fertile imagination of M.M. les journalistes." THE CHEMIST AND DRUGGIST was alone among English journals in reporting that his illness was not serious.

French Pharmaceutical News.

(From our Paris Correspondent.)

SANITARY PRECAUTIONS—The Paris Municipal Laboratory has supplied packets of sulphate of copper to every police-station in the city. This is to be used in disinfecting premises where cases of choleraform diarrhoea have been reported by the nocturnal medical inspector to have occurred during the night.

HONOURS TO "PHARMACIE CENTRALE" EMPLOYÉS.—Two of the employés of the Pharmacie Centrale de France, Mme. Marie Angélique Lagares, aged 71, and M. Louis Etienne Girerd, aged 53, were among the recipients of Government medals for long and faithful service to private employers at the annual distribution of these awards by the head of the French Ministry of Commerce on July 11 last. Mme. Lagares has been thirty-one years, and M. Girerd thirty-three years, with the Pharmacie.

THE HYGIENIC COUNCIL of the Seine Department are vigorously taking up the matter of purity of ice sold for alimentary purposes. Certain ponds have been inspected, and either condemned or ordered to be deepened, &c., to prevent stagnation. It was likewise resolved to approach the Prefect of the Seine on the question of a rigorous inquiry, aided, if necessary, by analysis, as to the sources from which the Paris purveyors of mineral waters, &c., draw their supplies. An analysis of ice sold for consumption was also considered desirable.

FRENCH COLONIAL MUSEUMS.—Each French colony is to be furnished with samples of the commercial products of the mother-country, to form a museum in charge of a competent official, who will do his best to make the articles known, and thus to keep out foreign manufactures and assure that "trade shall follow the flag." Perfumers, brewers, and others have sent samples, showcards, catalogues, and price-lists to the dépôt (Permanent Colonial Exhibition, Palais de l'Industrie), and they are now packed and ready for despatch. It should be noted that the expenses of delivery and exhibition abroad are defrayed by the Government.

HONOURS TO PHARMACISTS.—M. Pons, a pharmacist at the Marseilles Military Hospital, has been promoted Officer of the Legion of Honour. M. Cambriels, pharmacist-major at Algiers, and M. Puig, who holds a similar position at Constantine, have been nominated Chevaliers. M. Coquelut-Boissier, pharmacist at Nérès-les-Bains, who formed a botanic garden at his own expense and is the author of numerous scientific works, has received the Order of Agricultural Merit. M. Dehogues, pharmacist of Caatillerault, and Director of the School of Grafting, shares the same honour. M. Théophile Michel, pharmacist at Troyes, has just been awarded a silver medal by the Minister of the Interior for gallant conduct in rescuing a child from drowning. M. Barillé, pharmacist-major at the Vincennes Military Hospital, has been appointed to the Marseilles Hospital. His place at Vincennes is to be taken by M. Masson, chief pharmacist of the second class.

PHARMACISTS IN TROUBLE.—A pharmacist at Valenciennes, convicted of illegal medical practice and adulteration of medicaments, has been sentenced to a fine of £00*f.* and fifteen days' imprisonment. M. Carré, the pharmacist at Le Mans who supplied the strychnine with which the youthful Madame Bardel so nearly succeeded in poisoning her husband, has just been put on trial. His avowal was frank and outspoken. "I sold Madame Bardel 2 grammes of strychnine last February," said he, "without a doctor's prescription, under the following circumstances: The first time she sent her maid for strychnine without stating the use to which the drug was to be put. I sent her back, saying I could not deliver poison without an order from a doctor or the Mayor. The servant returned an hour later with a note from Madame Bardel, in which she asked for a franc's worth of strychnine to preserve stuffed birds. I considered that I ought to satisfy her demand, and in all good faith I gave the girl two grammes of strychnine." M. Carré's short address evidently convinced the magistrates that he was above any connivance in Madame Bardel's fiendish scheme, but the formal offence was punished by a fine of 200*f.*

Pharmaceutical Society of Great Britain.

COUNCIL MEETING.

THE usual monthly Council meeting was held at 16 Bloomsbury Square on Wednesday. The following members were present:—Messrs. Abraham, Atkins, Bottle, Carteighe, Cross, Greenish, Grose, Hampson, Harrison, Hills, Johnston, Martin, Martindale, Newsholme, Schacht, Santhall, and Storrar. Mr. Carteighe presided, and Mr. Cross occupied the vice-chair. The first business was with reference to the

SUBSTITUTION OF AN EXAMINER.

The PRESIDENT, in explanation, said that the examination for the Council Prizes was conducted by Mr. Shenston and Mr. G. C. Druce, of Oxford, the latter having taken the place of Mr. Bowen, in consequence of one of that gentleman's staff taking part in the competition, thus making it rather difficult for him to undertake the examination. He would ask the Council to accept the results of the examination later on, notwithstanding the fact that Mr. Druce acted in the place of the gentleman appointed by the Council. The President also mentioned that they had received, since the last meeting, the remaining acknowledgments from the newly-appointed

CORRESPONDING MEMBERS.

expressing thanks for the honour conferred upon them, sending congratulations, and promising to do all they could to further pharmacy in all parts of the world, and not to forget the Society of which they were corresponding members.

NEW MEMBERS AND ASSOCIATES.

The Society's roll of members was increased by the following numbers, the individuals having paid subscriptions and otherwise complied with the regulations: 12 elected members, after passing the Major examination; 5 as associates in business, having passed the Minor; and 45 as associates; 10 elected as students, having passed the first examination; 2 as members of the Society, having been in business prior to 1868; and 2 were restored to their former status. It was also resolved that 20 persons, having been duly registered as pharmaceutical chemists, should be granted the diploma of the Society.

FINANCE.

The Finance Committee reported that the General Fund account showed a balance brought forward of 3,807l. 6s. 8d., which was increased by the monthly receipts to 4,651l.; from this June payments—2,126l. 9s. 10d.—were deducted, leaving a balance in hand of 2,524l. 18s. 8d. The Benevolent Fund account had a balance brought forward of 1,095l. 12s. 10d. This was augmented by receipts to 1,154l. 6s. 10d., and after deducting 411l. 15s. 2d. for payments, a balance in hand remained of 742l. 11s. 10d. The Donation account of 35l. 7s. 6d. was increased to 60l. 12s. 6d. by two donations of 20l. and 5l. 5s. respectively. The report was adopted.

BENEVOLENT FUND.

Six cases were considered, of which two were deferred. The grants agreed to were three of 5l. each and one of 20l. A draft scheme for the disposal of the Hills bequest had also been laid before the committee, but its consideration had been postponed.

GROUND-RENT INVESTMENTS.

The PRESIDENT said that since the last meeting of the Council the Ground-rents Committee had to meet, and an offer had been made by them for certain ground rents which would take a considerable portion of the sum now invested in Consols on behalf of the Benevolent Fund. If they were able to secure the ground-rents they would make a good financial bargain. As the Council did not meet again until October, they wished to ask for authority to affix the seal of the Society to a power of attorney for the purpose of enabling them to sell out the Consols. They had, too, pro-

perties in view for the purpose of the investment, and one they had already closed with.

Mr. CROSS: What is the amount of the Consols?

The PRESIDENT: 4,750l.—practically all that we have got, the rest having been previously invested in ground-rents.

Mr. SOUTHALL: Are we keeping on investing in ground-rents and nothing else—ought we not to have a change?

The PRESIDENT: At present ground-rents are a good investment, notwithstanding what has been said about them. Our chief difficulty is to get them.

(A short discussion was then entered upon in committee as to the advisability of investing in ground rents, but at the end matters appeared to be *in statu quo*.)

The PRESIDENT put the resolution to the Council for the sale of stock amounting to 4,750l., and it was carried without objection.

Mr. CROSS, in moving the adoption of the report and recommendations of the Benevolent Fund Committee, said that, besides those amounts above mentioned, they had given a sum of 10l. 10s. towards the election of a child named Cook to an orphanage, and he was glad to report that they had been successful in getting the election the first time. The report was adopted.

LIBRARY MUSEUM AND SCHOOL REPORTS.

The members of this Committee reported that the attendance at the library for the past month during the day was 585, and evening 148. The number of books circulated was 233, of which 138 were for London and 95 for the country. The Curator of the Museum reported an attendance during the day of 507, and evening 97. The Committee recommended that the President should be asked to give the sessional address to the school on October 5 next, and further that the inaugural meeting should be held at 3 o'clock of that day, instead of in the evening as heretofore. Payments were also recommended for alterations which had been carried out in the schools and laboratory, and it was further recommended that the school prospectus should be sent to each member, associate, and student of the Society. It was also thought desirable to appoint a

PROFESSOR OF MATERIA MEDICA,

but in the meantime Mr. H. G. Greenish was requested to continue as hitherto as lecturer on materia medica.

The PRESIDENT, in moving the adoption of the report, said, regarding the request that the President should be invited to give the sessional address, that the committee came to that conclusion on the strong recommendation of the school staff, that next October being the Jubilee of the school, it was desirable that an old student should give it. The time of the inaugural meeting was altered, as it was thought a greater number of their London colleagues were freer in the afternoon than in the evening. It would also give an opportunity for visitors and friends to inspect the school and the Society's building generally. The report was adopted without comment.

RESEARCH COMMITTEE.

The PRESIDENT, continuing, said that several applications had been made for the Research Fellowship, and the Committee now recommended Mr. T. S. Dymond for election by the Council. Several gentlemen had applied whose training was unexceptional, but who hardly fulfilled the qualification as to original work. With reference to the

REDWOOD SCHOLARSHIP.

They would remember it was resolved last year that the Redwood scholarship should be associated with research work, with the consent and at the request of the late Emeritus Professor Redwood, made to the Council before he died, and acting on this, the Council decided that it should be left to the Research Committee to receive applications from candidates, and to determine as to what extent they should be examined. There had been one application only, because, when it became known that Mr. H. A. D. Jowett, who stood head and shoulders taller than everybody else in the school, had applied, all the rest simply did not apply. They recommended Mr. H. A. D. Jowett, who was not only an industrious and very capable student, but a man who was strong physically, and one who, he (the President) thought,

would do himself and them as great credit as Redwood scholar as he had done as a Bell scholar.

Mr. MARTIN, in seconding the report, said he congratulated Mr. Dymond on the distinction which his appointment as Research Fellow would confer upon him, and also congratulated the Society on the fact that one who was so closely connected with them should be the first to gain the right to use the title. He understood, however, that a very strong point in the matter was that the candidates should give evidence of training, and the power of original investigation. So far as he could see from the paper before him, there was one paper that had been done by Mr. Dymond alone, the others being in conjunction with Professor Danstan. For his part, dual originality was a thing he had very little faith in. Mr. Dymond appeared to be elected on the question of training, and on one paper that he had written. However, he had no doubt that Mr. Dymond was capable of being the official holder of the Fellowship; and if the same standard were observed the Research Fellowship would be sought after, and would confer distinction on the individual and on the Society.

Mr. HILLS, referring to Mr. Jowett, said it was a happy coincidence that he should have been also a Bell scholar, once more connecting the names of Bell and Redwood, who were so closely associated in their work with the Society. (Hear, hear.)

The resolutions appointing Mr. T. S. Dymond to be Research Fellow of the Society, and Mr. H. A. D. Jowett to be Redwood Scholar, were then put and carried.

The PRESIDENT intimated that the Research Committee had received from the Royal Society a grant of 100% and 50% for the prosecution of the researches into aconites and hyponitrites respectively.

JACOB BELL SCHOLARSHIP.

The Committee reported that 27 candidates competed, and the successful ones were: Thomas Tickle, Devon, and Ernest Goulding, London. A vote of thanks was passed to the examiners for their trouble.

CONFERENCE DELEGATES.

The following gentlemen were then elected to represent the Council as delegates to the British Pharmaceutical Conference to be held in Edinburgh on August 23 and following days:—Messrs. Atkins, Cross, Grose, Harrison, Johnston, Marshall Leigh, Martin, Martindale, Newsholme, Southall and Storrar. The Secretary, Editor, and Sub-editor were also requested to attend.

INTERNATIONAL BOTANICAL CONGRESS.

The PRESIDENT next stated that there was to be an International Botanical Congress at Genoa in the first week of September, and they had received an invitation as a Society to send delegates. Mr. Holmes and Professor Green could attend, and would probably go, and he (the President) thought it would be a compliment to the Congress, and gratifying to two of their officers, if they were delegated to attend the Congress. A resolution to that effect was put and carried.

REPORTS OF EXAMINATIONS.

Board of Examiners for England and Wales:—

	Candidates Examined	Passed	Failed
<i>Major.</i>			
	48	19	29
<i>Minor.</i>			
	191	67	124

In the Modified examination one candidate passed.

Board of Examiners for Scotland:—

	Candidates Examined	Passed	Failed
<i>Major.</i>			
	3	2	1
<i>Minor.</i>			
	88	51	37

For the First examination 412 candidates presented themselves, and of these 205 passed and 207 failed; 23 certificates were received in lieu of the Society's examination.

SCHOOL OF PHARMACY PRIZES.

The reports of the examinations showed the following results:—

Practical Chemistry—Silver medal, G. A. Shaw; certificates of honour, R. H. Jones, G. Hill, and H. A. D. Jowett.

Chemistry—Silver medal, H. A. D. Jowett; certificates of honour, Messrs. Gane, Boucher, and Shaw.

Botany—Silver medal, H. A. D. Jowett; certificates of honour, Messrs. Gane, R. H. Jones, and G. A. Shaw.

Materia Medica.—Silver medal, Mr. Gane; certificates of honour, H. A. D. Jowett, G. A. Shaw, and R. H. Jones.

Pharmacy and Practical Pharmacy.—Silver medal, Mr. Gane.

HERBARIUM PRIZE.

This is the first year in which the new conditions of competition come into force, and it was reported that there was a great improvement in the collection of plants sent in. The awards are:—Silver medal, W. J. Brown, Dover; Bronze medal, G. T. Branch, Cambridge; Certificate of honour, Sidney Davis.

PEREIRA MEDAL.

The examiners reported the result of the examination as follows:—Pereira medal, H. A. D. Jowett; Council's silver medal, E. H. Gane; Bronze medal, Geo. Baxendale.

The PRESIDENT, referring to the new conditions of the Herbarium competition, said it had been suggested by Prof. Green that it was desirable that the number of plants to be sent in should be reduced for the purpose of encouraging more perfect home-work on the part of the individual on the plants that he had collected. This was the first time it had been done. Prof. Green had spoken frankly in his report of the merits of the candidates; and what he said was that they had all collected well, the differences in the competition being particularly in points which displayed skill and knowledge. Their motto in regard to this prize was that they did not want quantity but quality. A man might get the silver medal with a comparatively small number of specimens if the work was of good quality.

Mr. MARTIN said he was glad to note that the herbaria came from different parts of the country. Referring to the examination at the School of Pharmacy, he would like to make it compulsory that every man who attended a course of instruction should sit for examination before he received a certificate of attendance, for the purpose of satisfying his teacher that he had done personal work as well as put in attendance.

Mr. SCHACHT also said he felt great encouragement by the reports of the herbarium competition which Professor Green had submitted.

Mr. ATKINS followed with a few remarks of the same nature, and votes of thanks were then passed to the examiners for the Council prize, Messrs. Shenston and Druce, and to Professor Green for his report.

THE SALE OF PROPRIETARY MEDICINES.

The PRESIDENT said, with reference to the remaining business of the Council, which would be taken in Committee of General Purposes, that a portion of it might be referred to in public without any breach of privilege. A short time back certain proceedings had been initiated as to the sale of a proprietary medicine containing poison—namely, the well-known chlorodyne—and penalties had been paid and promises made not to offend again in the cases that had been dealt with. The persons proceeded against were large dealers who, not being registered chemists and druggists, had sold those preparations, and in view of that fact the Council intended to issue shortly a circular to every registered chemist and druggist, and to other persons, calling attention to the circumstances of the case, and, as far as possible, warning them against the possibility of incurring penalties.

This concluded the public business of the Council, which went into Committee of General Purposes.

JULY EXAMINATIONS.

In the Preliminary examination, held on July 12, 412 candidates were examined, and the College of Preceptors report that the following 205 have passed:—

Aird, George Henry, Houghton-le-Spring Aitken, Francis, Dundee
Alexander, Ernest Glover, Sheffield

Allan, R. Birrell Carruthers, Dumfries
 Andrews, Ralph Cecil, Winchester
 Arkle, Oscar Blount, Lancaster
 Ault, William, Chesterfield
 Backhouse, Richard Stubbs, Silloth
 Baird, Thomas, Moffatt
 Barnett, Henry, Folkestone
 Barton, Frederick Cooke, St. Ives (Hunts)
 Battle, Ernest W. Chatterton, Manchester
 Beeny, Wallace Frederick, London
 Birss, George Duncan, Whitby
 Blair, Alexander, Greenock
 Blyth, Isabella, Sunderland
 Boss, Frederick James, London
 Boul, George Henry, Boston
 Bowker, Joseph Hyde
 Brander, William, Aberdeen
 Briggs, Henry, Old Basford
 Broadbent, Ernest Edgar, Shipley
 Brooksbury, David, Great Grimsby
 Brown, William Charles, Birmingham
 Brown, William Ritchie, Hexham
 Butler, George Edward, Bromley
 Bye, William Luther John, Llandilo
 Campbell, John, Ayr
 Charteris, David, Kilsyth
 Chatburn, Edwin Jordan, Ashton-under-Makerfield
 Cheyne, Charles, Aberdeen
 Clark, Albert Mitchell, Penistone
 Colliu, Jobu Francis, Diss
 Celliason, Arnold, Liverpool
 Colson, Thomas William, London
 Cooke, Charles Alfred, Portsmouth
 Coombe, Frank Ernest, Sutton-in-Ashfield
 Crankshaw, John Robert, Green Haworth
 Crispin, Charles Iargdon, South Molton
 Davidson, George Graham, Dundee
 Davies William Oswald, Pontypridd
 Dax, Henry Richard, Liverpool
 Dean, Charles, Bury
 Delaney, Edwin Louis, London
 Dewhurst, Fred, Bradford
 Dick, David McIntosh, Aberdeen
 Douglas, James Malcolm, Arbroath
 Dring, Charles Albert, Weymouth
 Duacan, Alexander Thomson, Peterhead
 Dunn, Tom Henry, Bedlington
 Earlam, Robert Henry, Chester
 Edgar, George Black, Thoruhill
 Elgar, John Butler, Fakenham
 Ellis, Gerald E. win, Loddon
 Elwood, William, Grimsby
 England Alfred, Leamington Spa
 Evans, Thomas Henry, Llandysul
 Eyres, Fred, Wainfleet
 Field, Ernest Potter, Hall
 Field, William J., Cambridge
 Findlay, Alexander Wilson, Bailiff Bridge
 Flood, William Hall, Lee
 Fox, George Alexander, Falmouth
 France, Hugh Archibald, Penicuik
 Francis, Charles Joseph, Burnley
 Gale, George Thomas, Barnstaple
 Gardner, Thomas James Elijah, Hythe
 Garnett, John Benbow, Manchester
 Giles, Frederick, Sheffield
 Gill, Frank, Keighley
 Glass, James G., Grantown
 Golden, Ernest, March
 Gosling, Ernest Scrase, Brighton
 Graham, Edwin, Wigton
 Graham John Moffat, Workington
 Green, Charles Orton, Brackley
 Gurnell, William, Ryde

Gwinn, Frederick Walter, Stratford
 Hair, George, Dumfries
 Hardcastle, Edward, Stockport
 Hardwick, Albert Charles, London
 Harris Charles Frederick, Norwich
 Harrison, George Henry, Barrow-in-Furness
 Hemming, Walter Ash, Chipping Camden
 Henderson, Henry John, Lowestoft
 Hill, Harry Ernest, London
 Hillman, Edward Stowers, Bristol
 Homer, Ernest, Birmingham
 Hosken, William Henry Martin, Norwich
 Hosking, Frederic, Falmouth
 Howard, Percy, Blackpool
 Hulme, Frederick Hitchin, Middlewich
 Hunt, Henry Lionel, Bath
 Hutchinson, Reginald Heber, Ipswich
 James, James Stanley, Narberth
 Jenkins, Evan Llewellyn, Llandysul
 Johns, David Griffith, Swansea
 Jones, Ernest William, Manchester
 Jones, Justin P., Llwynpia
 Jones, Samuel Wilfred Job, Seacombe
 Jordan, Herbert Evelyn, Mumbles
 Keene, Justin Leonard, Sittingbourne
 Kerr, John Gray, Edinburgh
 Kirkland, Walter Herbert, Somerby
 Kirtou, George Thomas, Boston
 Lacey, William James, Norwich
 Laws, John Joseph, London
 Laws, Maria, Soutas.a
 Lawson, John, Musselburgh
 Legg, Harold Beaumont, South Norwood
 Leggott, Harry, Hull
 Levin, Joseph Elkin, Manchester
 Lewis, John Butler Day, London
 Love, John Campbell Martin, Paisley
 McEwen, William, Perth
 McIntyre, Archibald Chalmers, Greenock
 McVitie, Joseph Elliot, Maryport
 Manson, James, Edinburgh
 Marshall, Alfred George, Morpeth
 Marshall, John William, Leicester
 Marsland, Alfred, Ashton-under-Lyne
 Mason, Hugh, Bexley Heath
 Melville, Oliver, Kirkcaldy
 Miller John Edward, Saltcoats
 Milligan, William, Portsmouth
 Milroy, Andrew, Glasgow
 Mitchell, Donald, Inverness
 Monson, George Alfred, Hayle
 Montague, James, Stockton-on-Tees
 Morgan, Arthur Ewart, Hawkbill
 Morris, Evelyn Harry, Peterborough
 Moss, James Ernest, Ashton-under-Lyne
 Mote, Charles Frederick, Crewkerne
 Moxon, Gerald Robert, Hampton
 Muir, John, Edinburgh
 Mundy, Alfred James, Honiton
 Murray, Edwin, Leeds
 Murray, William Low Burgess, Liverpool
 Neale, Cecil, Leicester
 Nelson, William Brown, Harrogate
 Nicholson, George, Tynemouth
 Nicolson, Albert, Edinburgh
 Norris, George, Long Sutton
 Osmond, Charles Holdway, Liverpool
 Parry, Idwal, Llanrwst
 Parry, Thomas Jones, Rhuddlan
 Patterson, John, Kelso
 Peace, William Henry, Huddersfield
 Peedie, Alfred Bayne, Dundee
 Petrie, David Laurence, Carnoustie

Pettinger, William Elmer, Hampstead
 Pickard, William, Dawlish
 Pickup, Ralph, Blackburn
 Plumb, Alfred, Cambridge
 Pratt, Charles Andrews, Chichester
 Prentice, John Hamilton, Leicester
 Proctor, David, Ruabon
 Pritchard, Ernest Anthony, Downham Market
 Pyman, Harold, Stow-up-Land
 Richardson, Edwin, Nottingham
 Ricks, Walter Francis, London
 Roberts, Hugh, Bangor
 Robertson, Donald William, Pickering
 Robinson, Alfred E., Norwich
 Robinson Charles, Bradford
 Robinson, John Lawrence, Bourne-mouth
 Rogerson, Alfred Arthur, Wainfleet
 Roper, Oswald Newman, Great Dunmow
 Roy, Louis Leslie, Arbroath
 Rush, Herbert George, Beccles
 Salthouse, Edward, Blackpool
 Shand, Alexander, Old Meldrum
 Sharp, Joseph William, Maryport
 Sharples, Robert, Blackburn
 Shelton, William, Chesterfield
 Silson, Richard Townsend, Bradford
 Simpson, Gibbon, Stalybridge
 Smart, William, Leslie

Smith, William Davidson, Rhynie
 Sutherland, John G., Leith
 Taylor, James, Peterhead
 Thomas, Jacob Beynon, Carmarthen
 Thorpe, Charles Arthur, Thetford
 Todd, George, Hollinwood
 Todd, Robert Alexander McLaren, Leicester
 Traill, Alexander Melville, Perth
 Tulloch, James J. B., Aberdeen
 Tumber, Henry Shemeld, Leicester
 Uttley, Luke, Sutton
 Wager, Andrew, Sheffield
 Walker Ernest, Aberdeen
 Walsh, Ernest William, Blackburn
 Walters, John Clifford, Chesterfield
 Watson, George William, March
 West, Arthur John, Leominster
 White, Herbert, Liverpool
 Whittaker, Herbert, Ashton-under-Lyne
 Wilkinson, C. Edward Ernest, Wakefield
 Wilson, James Bell, Ayr
 Wilson, Tom, Darlington
 Witten, John Joseph, Seaham Harbour
 Woolston, Walter George, Wellingborough
 Worth, Arthur James, Taunton
 Wrathall, Harry Vincent, Halifax
 Young, Welcome John, Shanklin

THE Board for Scotland met in Edinburgh, and concluded their work on Saturday, July 30. The following passed:—

MAJOR EXAMINATION.

Merie, Louis Xavier, Port Louis, Mauritius	Stewart, Alexander Stephenson, Edinburgh
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MINOR EXAMINATION.

Adam, Alexander Anderson, Glasgow	Mackie, John Scott, Fyvie
Anderson, John, Edinburgh	McPherson, Frederick Charles, Edinburgh
Angus, Robert Smith, Dunbar	Messenger, Arthur Herbert, Southport
Austen, John, Manchester	Mitchell, David, Bridge of Weir
Belbin, Harry Ashley, Sheffield	Moorhouse, Joseph William, Manchester
Brice, Frederick Gratton, Leicester	Nicholson, John H., Birmingham
Broadbent, William Henry, Manchester	Pickup, John, Manchester
Brown, John, Glasgow	Plant, Walter Edward, Doncaster
Cameron, James Ellison, Inverness	Rennie, Alexander, Edinburgh
Carmichael, John, Edinburgh	Reunie, John Chalmers, Edinburgh
Christie, George, Edinburgh	Reoch, Alexander Thomas, Edinburgh
Conley, Thomas, Edinburgh	Rigby, Walter, Edinburgh
Cruikshank, William, Edinburgh	Scanlon, Frederick William, Maclesfield
Canliffe, John, Accrington	Scott, Henry Fife, Edinburgh
Currie, James Charles, Edinburgh	Scott, Joseph, Barrow-in-Furness
Douglas, Robert Donald, Edinburgh	Sewell, Edward Augustus, Bradford
Draper, Arthur Longfellow, Edinburgh	Smith, Henry Edmund Lee, Manchester
Gibson, James Arthur, Glasgow	Spencer, Frederick, Dewshury
Hanson, Joseph, Huddersfield	Thomas, Thomas, Manchester
Harrison, Alfred William, Poulton	Thompson, John Meikle, Dumbarton
Hewitt, Charles Herbert, Sheffield	Thorp, Walter Thomas, Glossop
Hick, Alfred William, Manchester	Watson, James Rutherford, Glasgow
Hickin, William Edward, Liverpool	White, Alexander Arthur, Bathgate
Howling, Abraham Edward, Leith	Wilson, John Jordan, Manchester
Innes, George, Edinburgh	
Jones, Charles William, Merthyr Tydvil	
Lee, James Arthur Richard, Metherough	

THE Board of Examiners for England and Wales examined forty-eight candidates for the

MAJOR EXAMINATION

last month, and the following nineteen passed:—

Atkinson, Alfred, Bishopton Mills	Boucher, John Mycroft, Bristol
Baxendale, George, Congleton	Obaston, George Hunt, Alresford
Blakeley, Leonard, Otley	Dean, John Thomas, Haslingden

Gane, Eustace Harold, London
Hall, Samuel William, Lichfield
Heanley, Alfred Vergette, Peter-
borough
Hill, Ernest William, Wisbech
Jones, Robert Haselwood, Bury St.
Edmunds
Jowett, Hooper Albert D., Lan-
caster

Lawson, Frederick, Workington
Nash, Albert Hardstaff, Sleaford
Overend, George William, Leeds
Sansom, Maurice, Barrow-in-Fur-
ness
Shaw, George Arthur, Stockport
Tayler, Ernest Walker, Tewkesbury
Turney, Frederick Edmund, Ply-
mouth

MINOR EXAMINATION.

One hundred and ninety-one candidates were examined, and the following sixty-seven passed:—

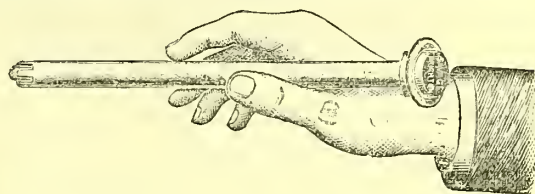
Allison, J.
Andrews, T. N.
Barnett, C.
Barritt, W.
Baynard, E. J.
Birt, O.
Borrow, R. H.
Bowlas, D.
Brittan, T. B.
Casson, R. A. (Miss)
Chadwick, G. W.
Clark, G. R. H.
Clement, H. E.
Colley, H. W.
Cooper, A. J. B.
Crawshaw, G.
Croft, D.
Crouch, W. S.
Davies, R. L.
Dent, J. W.
Dickenson, E. E.
Downard, J. J.
Drayton, E.
Durant, H. T.
Eynon, C. F. J.
Fielding, W. R.
Flint, W.
Garner, J. N.
Gillett, F. J.
Goatcher, W. G.
Gorton, A. G.
Grayson, W. H.
Hartley, J. H.
Hope, T.

Inge, E. G.
Jackson, H. R.
Jary, T. P.
Jenkin, A. H.
Jones, D.
Joseph, L.
Owen, J. G.
Palmer, A. H.
Pugh, W. H. W.
Rees, T.
Richards, R. H.
Richmond, S.
Roe, A.
Rose, T.
Rugman, A. T.
Sanders, E. C.
Selby, J.
Shacklock, J. H.
Sharp, W. A.
Sidebottom, J.
Simmonds, F. L.
Stelfox, J. A.
Suttle, J. H.
Tilson, A. E. (Miss)
Tootill, R. H.
Tweedy, J. H.
Type, H. G.
Waddington, L. (Miss)
Whitelock, H. W.
Whitwell, F. W.
Willis, W. A.
Withers, J. T.
Wood, A. H.

United Kingdom of certain preparations made by Messrs. Reed & Carnrick, of New York. These we have now had the opportunity of examining. One of the most interesting of the preparations is "Kumysgen," which is a white substance in short compressed sticks, each of which makes with an ounce of water as much kumyss. The value of this milk preparation has not had, we have always thought, the attention paid to it that it deserves, for in many gastric troubles it can be assimilated when nothing else will stay on the stomach. But the lack of attention is probably due to the difficulty of getting the kumyss of the right standard, and this objection is in a large measure met by the "Kumysgen." With it there is no trouble in making the beverage and of ensuring its uniformity. "Lacto-cereal Food" and "Lacto-preparata" are two foods for invalids and infants of a special character, the former being composed of powdered milk (sterilised and partly digested), dextrinated wheat, malted barley, desiccated bananas, cocoa-butter, and manna. "Lacto-preparata" is a humanised milk in powder form. The series of preparations also includes "Pancrobilin" compounds in liquid and solid form, which are elegant in appearance, and are claimed to possess properties not hitherto presented in hepatic remedies. Bile and pancreatic extract are the chief elements in these.

A COUNTER ADJUNCT.

MESSRS. SAVAGE & Co., pharmaceutical chemists, Brighton, have introduced a very useful shop-requisite in their "sealing-wax holder," which is represented in the accompanying illustration. It is a tube with a screw-top

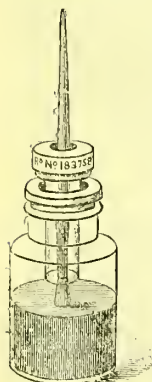


(upon which a seal may be engraved), from which a spring presses down the stick or piece of wax which is inserted. The holder is not only useful in itself, and an elegant and handy thing to work with, but it enables wax to be used to the last grain.

Notes of Novelties.

A NEW GUM-BOTTLE.

MESSRS. S. MAW, SON & THOMPSON have lately introduced a gum-bottle, which we figure. As will be seen from our illustration, it consists of four parts—viz., a wide-mouth bottle (4-cz.), with a perforated porcelain-topped cork stopper, into which is fitted a piece of glass tubing $2\frac{1}{2}$ inches long and $\frac{5}{8}$ inch wide, and upon this rests a porcelain top, fitted internally with a perforated india-rubber disc, through which the brush passes. The effect of the combination is that the brush never becomes fixed in the top-stopper, and can at all times be raised or lowered to any level. The brush and the top-stopper are practically one, so that on lifting it the superfluous gum is wiped off in the tube, down which it flows quickly, leaving no objectionable incrustation on the top. The bottle is as simple and clean as any we have seen, and just such a one as chemists can use and sell.



NEW DIETETIC PREPARATIONS.

REFERENCE was made last week to the fact that Messrs F. Newbery & Sons have undertaken the agency for the

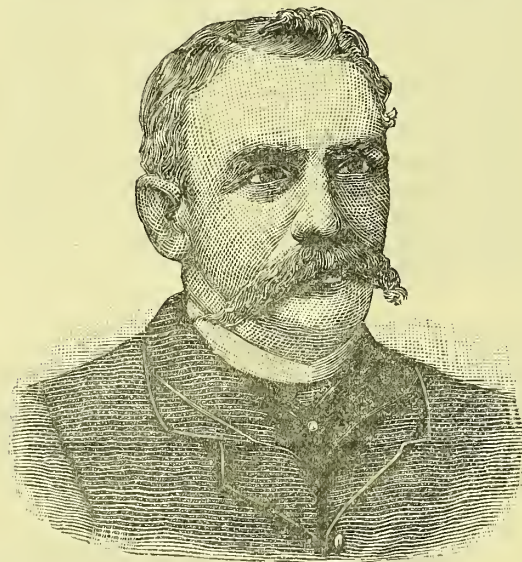
At Burnley Borough Police Court, on July 28, Darius Bradshaw, aged 19, was committed for trial on a charge of breaking and entering nine shops, including that of Mr. Hitchon, chemist, St. James' Street, Burnley, and stealing in all about 6*l*. In his evidence Mr. Hitchon said that he found his safe had been interfered with, the handle had been wrenched off, and the lock had been so tampered with that the key would not fit it.

UNITED STATES TRADE MARKS—Registered July 19:—"Be Sure and Work the Horse," for a salve, by Bickmore Gall-cure Company, Old Town, Me.; "Consumption Conquered" and portrait, for a medicine, by Mrs. S. D. Chapman, Ovilla, Tex.; "Fruitanz," for a compound of fruit and cascara-bark, by Emory T. Booth, Brooklyn, N.Y.; "Our Pet," for perfumery, by Bean & Vail Brothers, Philadelphia, Pa.; "Operte Cream," for a dentifrice, by Florence Manufacturing Company, Northampton, Mass.; "Alcomania" and a portrait, for a cure for drunkenness, by Alonzo Noteman, Toledo, Ohio; "Scott's Singing Balm," for a remedy for sore throat, by Maria Scott, San Diego, Cal.; "Absorbine," for liniments, by W. F. Young, Meriden, Conn.; "Black Beauty," for veterinary remedies, by E. A. Craighill & Co, Lynchburg, Va.

AMERICAN PHARMACEUTICAL ASSOCIATION.

THIS Association held its fortieth annual meeting at Profile House, White Mountains, N.H., last month (sessions beginning on Thursday, July 14, at 10 A.M.), under the presidency of Mr. A. K. Finlay, of New Orleans. About three hundred and fifty were present, and, after the formality of welcome, Mr. Finlay delivered an address in which he mentioned the coincidence that that day was the centennial of the birth of the first President of the Association, Daniel B. Smith.

He then summarised the principal events of the year in connection with pharmacy, and dwelt at some length on the



Mr. Alexander K. Finlay, President of the American Pharmaceutical Association, is a native of Ireland, and went to the States in 1858. He served his apprenticeship to the drug trade at New Orleans with his brother, Mr. Thomas K. Finlay, and was admitted into partnership in 1867. Mr. Finlay is now sole proprietor. He is a graduate of the University of Louisiana, obtaining his degree for pharmaceutical studies in 1873. He is prominent in pharmaceutical affairs in the State, and is well known to the members of the A. P. A., having served as local secretary at New Orleans last year. Mr. Finlay is in his 49th year.

evils of price-cutting on proprietary medicines, relating some instances in which the trouble had been met and overcome. Another evil, from the pharmacist's point of view, was the increased use of ready-made prescriptions by physicians, and the President urged that an effort be made to check this practice.

THE STRENGTH OF THE ASSOCIATION.

The reports submitted showed that the total receipts during the year had been \$12,952.75; total disbursements, \$9,128.42; amount in treasury, \$3,834.33. One hundred and seventy-six persons were invited to become members at the last meeting, and 139 had accepted. There are now 1,396 active and 21 honorary members. The International Pharmacists' Congress at Chicago in 1892 was referred to. The committee on the national Formulae recommended a number of simple but effective formulæ through its chairman, Mr. Louis Diehl. The treasurer's salary was raised from \$500 to \$750.

CUTTING.

The whole of the day on July 15 was devoted to a discussion of the means to stop cutting. This occurred in the Commercial Interests section, and was opened by Mr. W. H. Torbert, of Iowa, the Chairman, who, in his address, after a reference to certain burdensome laws relating to the sale of drugs and liquors, declared that the eyes of all pharmacists were on the section in the expectation that it would deal with the cut-rate problem. The opinion held by some

lawyers that the arrangement made for the suppression of price-cutting on patent medicines was an infraction of the anti-trust law was what had blocked its way and prevented success.

He advised that, in view of the agreement of proprietors, wholesalers, and retailers, and the doubt as to the legality of the American Pharmaceutical Association's plan, the Association insist upon the trial of the plan. This meant much work for wholesalers and retailers, but it was better than having one-third of the sales of the retail druggists without profit. The only alternative was to abandon the field to the cutter.

Mr. Alexander submitted the following resolution:—

That the plan of the A.P.A., as ratified by the joint committee of the National Wholesale Druggists' Association, the proprietors, and retail druggists, be reaffirmed, and that this section be directed to request the Manufacturers and Proprietors' Association to execute the plan, and put it into operation at the earliest possible date.

The discussion on this matter was opened by Mr. Alpers, of Bayonne, N.J., and if the section had purposely chosen this gentleman to speak, they could not have selected a better for exciting a debate, as he at once took up a strong position that the Association should let cutting alone and stick to scientific work. He said, in the first place, that selling proprietary medicines is not professional work—any girl or boy could sell them. Secondly, cutting cannot be stopped; for it is impossible to keep cutters from getting the goods, and the retailers themselves do not want the business stopped. Thirdly, prices cannot be restored; for the public will not have it, and druggists are finding a remedy for cutting in the preparation of remedies themselves to take the place of proprietary medicines which are cut in price.

Messrs. Ebert (Chicago), George J. Seabury (New York), W. H. Rogers, Bartlett, and others spoke in favour of the resolution. Mr. Canning and Dr. Eccles spoke against it, and the discussion was warm, and so long that Mr. Seabury's proposal to limit speeches to five minutes was heartily welcomed. Still, the matter extended over the second session, during which Mr. Finlay, the President, made a strong plea for local organisations as the greatest powers for the control of rate-cutting, at which Mr. S. A. D. Sheppard exclaimed that he would give Mr. Finlay \$10,000 and all his expenses if he would put Boston on its feet in regard to price-cutting. Excitement rose high as the vote was reached, and points of order flew thick and fast. After an amendment offered by Mr. Canning was lost the original resolution was carried by an overwhelming majority, and the announcement of the vote was received with prolonged cheers.

A motion was made by Mr. H. C. W. Martin to the effect that all manufacturers of proprietary medicines be requested to mark all bottles and packages so that the source of supply may be easily traced. It was carried almost unanimously, as was also one by Mr. Seabury to the effect that the State Associations be informed of the action of the A.P.A. in reaffirming the "plan" and he requested to pass similar resolutions, and another, by Mr. Ebert, requesting the wholesalers and manufacturers to unite in concerted action against cut rates. Further, Mr. Hallberg moved that steps be taken to secure local organisation, and this was agreed to.

The Scientific section had the whole of the Saturday to discuss twenty-nine papers. Mr. C. S. Hallberg presided over this section, and delivered an address. In the course of this he made a practical suggestion regarding

NEW REMEDIES,

namely, that a committee of three be appointed by the section, including a medical man, who may be a member of the Association, to undertake the compilation of an ephemeral publication containing brief descriptions of the properties, uses, and doses of such new remedies as appear from time to time, together with such pharmaceutical preparations as may have become sufficiently known to warrant it, such compilation to be published in convenient pamphlet form at such intervals as may be deemed expedient—say, quarterly—and to be distributed among medical men by pharmacists in their respective localities. The publication of such a work to be undertaken by the committee without expense to the Association. This suggestion was adopted. The report will be published quarterly at 10 cents. The first paper read was on

CHEMICAL SYMBOLS IN PHARMACY.

This was by Mr. W. W. Kerr, of Batesville, Ark., and his note was a reply to the query: Would not chemical symbols, in addition to the official titles, be advantageous on the labels of shelf-bottles? He thought they would—(1) to beginners as an educational force; (2) to keep older druggists in mind of the composition, &c., of the articles; for, if a knowledge of chemistry be an essential qualification of the competent pharmacist, then whatever tends to keep that knowledge prominently present with him in all his work should be encouraged, and chemical formulæ on shelf-bottles do that.

Dr. C. O. Curtman then read a paper on the

AMYL NITRITE OF PHARMACY,

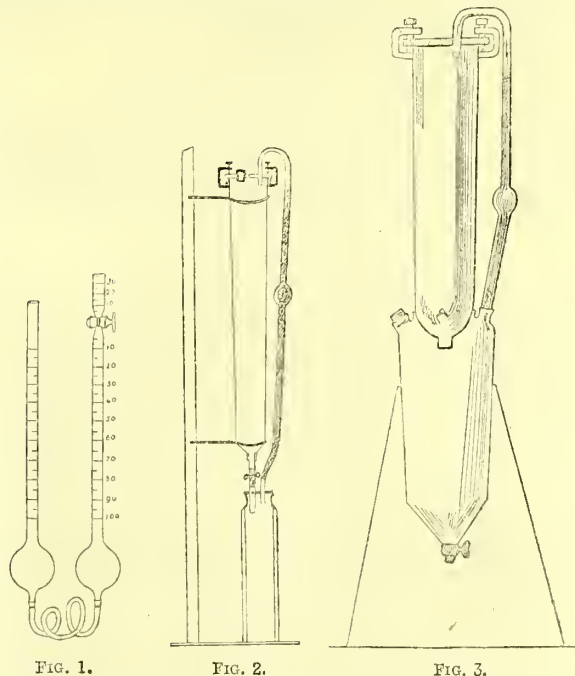
which he illustrated with experiments. The author has recently been working on spirit of nitrous ether, traversing in this connection with the nitrometer the ground which so many English workers have already explored, and he now applied the nitrometer to amyl nitrite in the same manner that Mr. A. H. Allen did seven years ago, but Dr. Curtman's nitrometer has two bulbs at the bottom of the tubes (see fig. 1)—a combination of Lunge's and Allen's. Several points in his paper may be noted. First, German and American fusel oils differ in composition. Fusel oil from potato spirit (German) contains principally iso-amyl alcohol and ethyl alcohol, and therefore furnishes a pure product. Fusel oil from maize whisky (American) contains beside the iso-amyl alcohol small amounts of its several isomeric varieties (normal amyl alcohol, *lævo*-rotary methyl-ethyl-carbin-carbinol, &c.), also iso-butyl and propyl alcohols. We find a corresponding difference in the nitrites prepared from the oils, and among unsuspected products occasionally found are amyl valerianate, nitropentane, ethyl nitrite, and butyl nitrite. This part of the subject was more fully discussed by Dunstan, Williams, and Woolley four years ago, but Dr. Curtman did not refer to their papers. Next he proceeded to discuss pharmacopœial characters and tests of the nitrite, explained how it can be assayed by the nitrometer, and what takes place then, and gave results of the examination of samples of the nitrite obtained in the States. These show great variation in the nitrite value; the poorest sample yielded 27.14 per cent. of amyl nitrite, and the best 93.71 per cent., but most of the samples gave figures between 40 and 80 per cent. The results had all a temperature correction, 0°C being taken as the normal. Dr. Curtman, in concluding, drew attention to the means of preserving this medicament; and among the methods to accomplish this there stands foremost, he said, protection from light. Bottles of the darkest brown glass should be chosen, aided by wrappers of opaque paper, and by position in the darkest part of the store-room or prescription-desk. Besides these, well-fitting stoppers and the coolest possible storage are necessary aids in delaying decomposition. Enclosure in hermetically-sealed pearls is certainly a very eligible mode of preservation, if aided by protection against the influence of light and by accurate dosing.

For this paper Dr. Curtman was specially thanked by the Association.

"ECONOMIC PERCOLATION"

was the title of the next paper, by Mr. Harry V. Arny, of New Orleans. He found, on making a number of spirituous percolates, that the loss of spirit by evaporation varied from 2 to 76 per cent., the average being 16.2 per cent. Thereupon he devised the apparatus shown in fig. 2, which consists of a glass percolator with a brass cover containing two orifices—one for the ingress of menstruum, the other for air. The former hole was tightly closed by means of a screw-cap fitted with a rubber washer, while from the latter proceeded a U-shaped brass tube, to which was attached a rubber tube of sufficient length to reach down to the receiver. The cover was tightly fitted to the percolator by means of iron clamps, a rubber washer completing the fitting, while the projecting glass rim of the percolator was fortified by a wooden ring placed beneath. As a receiver, a tall museum-jar was utilised. Two holes were made in its cover and were fitted with corks, through each of which passed a piece of glass tubing. Over one of these tubes was slipped the rubber tube from the brass cover mentioned before, while to

the other was attached a short rubber tube, the upper end of which was fitted by means of a glass tube and cork to the neck of the percolator. Percolation in this apparatus resulted in the reduction of the average loss of spirit to 5.7 per cent., the highest being 11 per cent., and in the case of cinchona the reduction was from 76 to 3 per cent. Still another apparatus was devised,



as shown in fig. 3—viz., a narrow percolate which is screwed into the wide receiver at A, the screw not being shown in the figure. One portion of the screw is soldered to the base of the percolator, the other to the top of the receiver, the joint being tightened by means of tow. From the upper portion of the receiver emerges a tube, which is connected to the percolator cover by means of a syringe bulb and tubing; an additional orifice in the same place, with screw-cap, would be useful in permitting access of air when the percolate is drawn off. The arrangement for drawing off the percolate at the lowest point in the receiver will be found most convenient in fractional percolation, as the percolate arranges itself in layers according to specific gravity, and need not be separated into fractions until the process is concluded. The percolator and receiver now in use are constructed of tinned iron, the chief objection to which is its opacity. The effects of this, so far as the receiver is concerned, may be overcome by the employment of a glass gauge; but, if practicable, the use of a glass apparatus would be far preferable.

SEPARATION OF STRYCHNINE AND BRUCINE.

Mr. H. W. Snow, in a note on this matter, reported that he had failed to get good results with Dunstan and Short's, Schweissenger's, Dragendorff's, Lyon's, and Prescott's methods. Other methods which suggested themselves were tried. First, known weights of the alkaloids were taken, and combined with chloroformic hydrochloric acid. The hydrochloride which separated was then titrated with $\frac{n}{25}$ soda, phenolphthalein being the indicator, as the freed alkaloid has no effect upon phenolphthalein. The results were close to what theory required, but when the method was tried on mixtures of brucine and strychnine it was found to be useless. Next, Prescott's method of separation by weak alcohol was tried. Brucine is soluble in 20-per-cent. alcohol, strychnine very sparingly soluble; but on trying the plan with mixtures of the alkaloids it was found that brucine influenced the solubility of strychnine. Finally, the action of 1.056 nitric acid as suggested by Gerock was

tried, on the supposition that on heating the brucine would be decomposed and the strychnine not. The result was the discovery that in the case of brucine a body is formed that precipitates Mayer's reagent, whereas with strychnine the coloured product formed by the action of the acid causes no precipitate with Mayer's reagent or other general alkaloidal tests. These experiments indicated that while there is considerable difference between the alkaloids in their resistance to 1.056 acid, it is very doubtful whether this can be applied for their estimation when in mixture.

Mr. Adam Conrath next contributed a paper on

AROMATIC SPIRIT OF AMMONIA,

showing that, in the cold process of the U.S.P., it seems preferable to allow the aqueous solution to stand some time before adding the alcohol, the conversion of the carbonate into monocarbonate thus proceeding more rapidly than when the alcohol is added as the U.S.P. directs.

Following this, Mr. J. U. Lloyd read a paper on

AMERICAN POTASH.

This was formerly an article of much importance, and was exported from the country in large amounts. The New England States were at first the principal producers of potash, Boston, where it is now of no consequence, once being the great export market. With the destruction of the forests the source of supply receded from the East, progressing into the West, where until a comparatively recent period more or less was manufactured, but at present only a few stray casks drift into the hands of wholesale druggists or commission merchants. However, contrary to general opinion, the manufacture of potash is still carried on in some parts of the North-west on a considerable scale. In the neighbourhood of the forest of northern Michigan, and in portions of the provinces of Canada, this substance is still systematically manufactured the year through. By "potash" is meant a substance containing 80 to 95 per cent. of carbonate and hydrate of potash, the balance being made up of sulphate of potash, chlorides of sodium and potassium, and insoluble matter. About 70 per cent. KOH is the standard which it is possible to obtain, but Mr. Lloyd found the average of many casks of first sorts came out at 58.4 per cent., and dealers would not guarantee more than 60 per cent., as they had not control of the "salting" which is practised by makers. However, a strong protest improved matters during the last twelve months. A total of 504,138 lbs. averaged 73.5 per cent. KOH, three car-loads averaging over 75 per cent. KOH, while one car-load averaged over 80 per cent. This is evidence that a standard of 70 per cent. KOH is attainable. For generations it has been customary to add more or less salt to the contents of the potash-kettle just before it is "melted down," and sometimes lime is also added. This not only increases the yield and helps to make it cake, but it improves its appearance. Good potash is generally opaque, of a dull grey, slate, or bluish colour, often streaked with red or greenish stains. It deliquesces on exposure to the air, and becomes slowly pasty. It is mostly (unless much lime is present) soluble in water. Sometimes it presents a whitish appearance in the centre of the cake, and occasionally is honeycombed. This description will generally average 70 per cent. and upwards KOH. That which is largely mixed with salt is usually crystalline, often nearly white, pearly and translucent, or of a beautiful delicate pink, and seems to be the most highly valued by those who judge only from appearances.

TARAXACUM JUICE.

Mr. L. E. Sayre, of Lawrence, Kansas, in a note on this subject, contented himself with a single analysis. A sample of root collected in May yielded 57 per cent. of juice (having 22.42 per cent. of moisture in the root). The juice was sp. gr. 1.007, and contained 1.472 per cent. solids, of which 0.036 was engar and 0.0045 ash.

ESTIMATION OF OIL OF WINTERGREEN.

Mr. B. J. Ewing, of Ewingville, Ohio, suggested that this oil can be estimated by saponification with soda, and determining the excess of soda after saponification. The process is as follows:—

Weigh 5 grammes of the oil in a tared flask of 100 c.c.

capacity, and pour upon it 40 c.c. volumetric solution of soda. Cork the flask securely, and heat the contents at 60° C. until the precipitate formed at first has totally disappeared. Cool, remove the cork, and again apply, and maintain heat at the boiling-point for five minutes; again cool, add enough solution of phenolphthalein to impart a red colour, and then enough normal hydrochloric acid to render the liquid neutral. Subtract the volume of acid required from 40, and multiply the remainder by .138 (one-thousandth of the molecular weight of salicylic acid), and the resulting product by 20, to get the percentage of salicylic acid; or multiply the remainder by .152 (one-thousandth of the molecular weight of methyl salicylate), and the resulting product by 20, to get the percentage of methyl salicylate. This method has proved effectual in detecting an oil offered for sale by a travelling broker, which contained but 68 per cent. of methyl salicylate.

SOLUTION OF BIMECONATE OF MORPHINE.

Miss Alice L. Braunwarth, Ph.G., Muscatine, Iowa, said that although this preparation of opium has been in great favour for many years, no positive formula for its preparation nor standard for strength exists in any authoritative work. Accordingly, she did a great deal of work in regard to the morphia yield of morphine sulphate, the saturating-power of meconic acid, and the strength of commercial solution of morphine bimeconate. It is a 1-per-cent. solution with 24 per cent. of alcohol. Upon the basis of her experiments Miss Braunwarth said the following formula will produce a preparation such as is desired:—

	Parts
Morphine crystals	16.0
Meconic acid crystals.. ..	7.0
Alcohol, 91 per cent.	265.0
Distilled water	715.5

Dissolve the morphine and meconic acid in 100 parts of water by heat, cool, add alcohol and sufficient distilled water to make 1,000 parts.

"THE BOTANICAL NAMES OF THE U.S. PHARMACOPOEIA."

Dr. H. N. Rusby, in a paper with this title, made an interesting review of the principles which should be followed in the revision of the Pharmacopoeia, to which he added a record of all the places and dates of publication of U.S.P. botanical names. The appendix of the paper thus became the more valuable part of it. The nature of the suggestions made may be judged from the following examples. It is proposed to give *asafetida*, as derived from *Ferula fetida*, Bunge. The synonyms are: *Scorodosma fetida*, Bunge; *Ferula Asafetida*, L.; *Narthex Asafetida*, Falconer; *Ferula Scorodosma*, B. & T.; and *Ferula Narthex*, Boiss. The synonymy of this plant is one of the most difficult to unravel of all in the Pharmacopoeia, says Dr. Rusby. According to B. & H., *Narthex* falls into *Ferula*. If there were no doubt as to Linné's plant, we should be compelled to adopt his name. But while Hugh Falconer declares that specimens of the true *asafetida* plant which he studied were identical with the plate of *Kaempfer* and this specimens on which it was based, the foundation of Linné's name, Boissier is equally certain that that figure and specimen refer to a different plant from that which yields *asafetida*, and that a new name must be made for the latter. Bunge's name "*fetida*" seems sufficiently distinct from "*asafetida*" to stand in the same genus with it, and it is many years older than Boissier's name "*Narthex*." As to *Garcinia Hanburyi*, Hook. f., Dr. Rusby said it seems to be wrong. Hanbury regarded the plant as a mere variety, and called it var. *pedicellata*, and it is not at all improbable that he is correct. But, if raised to specific rank, the name should be *Garcinia pedicellata*, Hanbury—the presence in the genus of the name *pedunculata* apparently not preventing. In regard to *Oleum Myrcia*, Dr. Rusby said it is from a species of *Myrcia* which should be called either *M. caryophyllata*, Jacq., or *M. racemosa*, Miller. Between 1764 and 1771, Jacquin ("Obs.," 2, p. 1) had called it *Myrtus caryophyllatus*; but the author could not say if this name is older than *Caryophyllus racemosus*, Miller; *Myrcia acris*, Swartz., of the present edition, did not appear until 1788, but until we can decide which of the above names is the older, it is not worth while to make a change.

EASTON'S SYRUP.

With a long title and a quotation from Walter Savage Landor, Professor Charles T. P. Fennel, of Cincinnati, commenced a long paper on this subject. The American syrup is from the outset ferric, and the result of that is that a basic ferric phosphate is slowly precipitated in it, the syrup becomes dark, and the author's intention was to show by equations, &c., how these undesirable results cannot be avoided while things remain as they are. The paper was a longer and more erudite one than can be adequately treated in a short abstract.

SYRUP OF CALCIUM LACTOPHOSPHATE.

Mr. H. W. Aufmwasser has found in this syrup, as generally made, deposits of tricalcium phosphate and monohydrogen calcium phosphate. The following formula he found to yield a permanent syrup:—

	Parts
Calcium carbonate	21.3
Phosphoric acid, 50 per cent. .. .	109.4
Lactic acid	33
Orange-flower water	80
Sugar	600
Distilled water, a sufficient quantity to make	1,000

Dissolve the carbonate of calcium in the acids diluted with the orange-flower water and with 150 parts of water, filter the solution, and wash the filter with water to obtain 100 parts. In this dissolve the sugar, if necessary with a little heat.

The same author made some comments on soluble lactophosphate of calcium.

GLYCERINE, BORAX, AND BICARBONATE OF SODA.

Mr. J. U. Lloyd confessed that "some months ago" it did not occur to him that anything unusual would result in the following prescription:—"Powdered borax, $\frac{1}{2}$ oz.; bicarbonate of sodium, $\frac{1}{2}$ oz.; carbolic acid, 10 drops; water and glycerine, of each, 2 cz. He experimented, and found that a mixture of bicarbonate of sodium and powdered borax reacted upon each other in the presence of glycerine, producing sodium borate and carbon dioxide, a fact that had previously escaped his observation. Then Professor Norton, President of the Cincinnati Chemical Society, looked up the literature on the subject, and an explanation by a Mr. Ibes, of Hopkins University, given in 1877, was found.

CORROSIVE-SUBLIMATE LOTION.

For keeping this lotion clear, Mr. Adolph Levy revived the old suggestion of adding 5 parts of tartaric acid to each part of the sublimate. Compressed tablets containing the ingredients in these preparations may be coloured with a harmless pigment to guard against their careless use. They are instantly soluble in warm water. Gauze, thoroughly sterilised, after being washed and ironed and immersed in the solution of the strength of 1 to 1,000, retained its activity in moist condition for over one year. The tartaric acid acts as a mordant to fasten the medicinal agents to the fibre.

SYRUPUS FERRI PHOSPHATIS, U.S.P.

Mr. W. H. Wearn stated in a paper that the cause of the darkening of syrups containing phosphate of iron is that "the sunlight destroys the molecule of ferrous oxide, thereby liberating its oxygen and renewing chemical affinity of ferric phosphate, enabling it to appropriate the free atom of air which produces ferrous phosphate and eliminates ferrous salts entirely." He recommended that "a concentrated solution of ferri phosphas be prepared, and exposed to sunlight until the green colour is developed and evolution of oxygen gas ceases, after which it may be made into syrup of desired strength."

CALCIUM HYPOPHOSPHITE.

This salt "is largely contaminated with insoluble salts of calcium. Estimations of the amounts present are desired, and a means of avoiding the contamination." So said the query-paper of the association, but on testing five commercial samples Mr. L. E. Sayre found the percentage of true hypophosphite in them to be 97 to 99.7—not a startling revelation of inferior quality. The rest of his paper was concerned

with the tests and way to manufacture the hypophosphite. The following papers were also read:—

The Practical Use of the Microscope in Pharmacy.

By Alfred R. L. Dohme, Ph.D.

Phosphate of Iron (U.S.P. 1830) and Phosphoric Acid.

Efficacy of the Use of Glycerine as a Substitute for Other Menstrua in Syrups.

By L. F. Stevens.

Alkaloids Accompanying Berberine, their Properties and Reactions.

By W. W. Birkmire, of Ann Arbor, Mich.

The Relationship of the White Alkaloids of Berberine-bearing Plants.

By R. D. Young, of Ann Arbor.

The Action of Hot Sulphuric Acid on Beeswax, Paraffin, and Ceresin.

By C. C. Sherrard.

The Cultivation of Coffee in Jamaica.

By C. J. Lloyd, of Cincinnati.

Laboratory Notes.

By F. A. Thompson, of Detroit, Mich.

The last paper was enthusiastically received, on account of the practical information it contained, but Mr. Martin took exception to the name of the laboratory (Paiké, Davis & Co.'s) in which the experiments were made being presented. Mr. Thompson said the laboratory of a well-known house was on the same basis as that of a university.

OTHER MATTERS ARRANGED.

The principal office-bearers for next year are:—President, Professor J. P. Remington, Philadelphia, Pa.; Vice-Presidents, A. P. Preston, Portsmouth, N.H.; Sidney P. Watson, Atlanta, Ga.; and William H. Averill, Frankfort, Ky.; and Reporter on Progress of Pharmacy, Henry C. Kreamer, New York. Professor C. T. P. Fennel was appointed Chairman of the Scientific Section.

At a meeting between the secretaries of the State Boards of Pharmacy and those of the State Associations the topics discussed were the interchange of State certificates and uniformity of standards in examinations in different States. No definite action was taken.

The Committee on Prize Essays (1892) awarded the first prize to Professor Fennel for his paper on "The Chemistry of the Elements Entering into Spirits of Phosphates of Iron, Quinine, and Strychnine of the Pharmacopœia." The second was awarded to Mr. H. V. Arny for his paper on "Economic Percolation."

Three hundred and fifty new members were proposed and elected.

THE will, with a codicil, of Mr. Frank Clarke Hills, late of Redleaf, Penshurst, Kent, and head of the firm of F. C. Hills & Co., chemical manufacturers, of Deptford, who died on May 3, was proved on July 14 by Frank Ernest Hills, Edward Henry Hills, and Arnold Frank Hills, the sons, the executors, the value of the personal estate amounting to upwards of 1,942,000*l.* The testator bequeaths 1,000*l.* each to the British Home for Incurables and the Infant Orphan Asylum, Wanstead; 500*l.* to the Association for the General Welfare of the Blind; 300*l.* to the National Refuges for Homeless and Destitute Children; 200*l.* to the Metropolitan Convalescent Institution; 10,000*l.* to the widow and children of his late brother Thomas, to be equally divided between them; 10,000*l.*, upon trust, for his brother George, for life; 5,000*l.* to his brother Henry; 1,000*l.* to the widow of his late brother Arthur; 65,000*l.*, upon trust, for his daughter, Mrs. Ellen Marianne Harvey, for life, and then for her issue as she shall appoint; 65,000*l.* upon similar trusts for his daughter, Mrs. Constance Annie Harvey, and her issue; and legacies to clerks and foreman of yard in employ of firm of F. C. Hills & Co., of Deptford. The Redleaf Estate, with all the furniture, pictures, plate, household effects, wines, consumable stores, horses, carriages, live and dead stock, and arrears of rent, he gives to his son Frank Ernest. All the residue of his real and personal estate he leaves to his three sons, Frank Ernest, Edward Henry, and Arnold Frank, to be divided equally between them.—*Illustrated London News.*

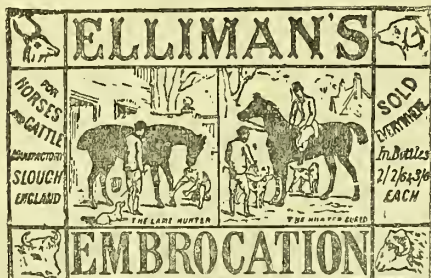
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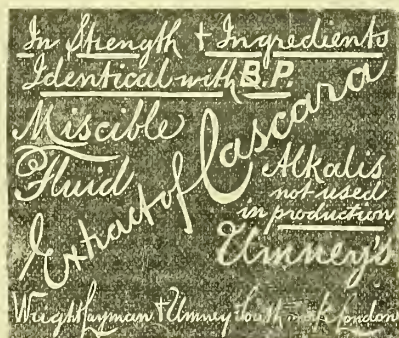
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TEN-GUINEA

Prize Competition.

See page 5.

Editorial Comments.

THE AGE OF THE EARTH.

To the chemist accustomed to calculations carried to the fifth place in decimals, the latitude demanded by the geologist is something appalling. How old is the earth? has been the ever-recurring question which the multitude has

been putting to the geologist, and which that man of science, with all his pretence of contempt for the mere vain curiosity of the common herd, has ever been trying recklessly to answer. When the world—that is to say, the penny newspaper world—first began to interest itself in the speculations of the philosophers, it was startled to learn that the traditional six thousand years which we had all been taught to look upon as the age of our worthy planet was an exploded notion altogether. Scientists told us, "with a grim pleasure in the torture they were inflicting, that our earth must have existed many thousands of millions of years; and the evidence they adduced was terrific in its weight. We were gradually adapting our historic consciences to this most depressing view of things when, a few years ago, Sir William Thomson came to our rescue with the hopeful news that the earth could not have been in existence for more than 400 millions of years, and that it was scientifically conceivable that its age might not exceed the trifle of 20 millions of years. The margin was wide enough to allow of further investigation before geology could claim to be an exact science, but there seemed to be some satisfaction in getting any authoritative definition of the limits within which speculation might roam, and Sir William Thomson got a peerage—*post hoc*, if not *propter hoc*. The theory he expounded was based on calculations of the heat which the planet could bear when it first came into shape from chaos, and of the possible rate at which the heat had been dissipated. He finally fixed on the convenient figure of 100 millions of years as about the period which might be reckoned to embrace the whole geological history of the globe. Following Lord Kelvin's theories, and improving upon them, Professor Tait has lopped off 90 of these millions, and suggests 10 millions of years as a more reasonable hypothesis of the time within which the processes of earth-cooling could have occurred.

Thus we were galloping back gloriously to our old figure of six thousand years, but now the geological authorities have put their backs against the wall, and claim once more to be heard. Sir Archibald Geikie, LL.D., D.Sc., Foreign Secretary of the Royal Society, F.R.S.E., F.G.S., and Director-General of the Geological Survey of the United Kingdom, has the ear of the world this week, and from the tribune of the British Association, over which he presides this year, he answers back those frivolous physicists. Without claiming, to use his own expressive phrase, "the whole of bygone eternity," for the mutations and developments which the crust of the earth records, he "can hardly doubt that there must be some flaw in the physical argument," though he does not pretend to be able to say where it is to be found. "Some assumption, it seems to me, has been made, or some consideration has been left out of sight, which will eventually be seen to vitiate the conclusions, and which when duly taken into account will allow time enough for any reasonable interpretation of the geological record." In view of the sweeping reductions of time which the physicists demand, the President of the British Association plaintively compares the geologists' position with that of King Lear when his bodyguard of one hundred knights was cut down. "What need you—five-and-twenty, ten, or five?" demands the inexorable physicist, as he remorselessly strikes slice after slice from his allowance of geological time. Sir Archibald Geikie is inclined to admit that the demands of the early geologists for an unlimited series of ages were extravagant, and even for their own purposes unnecessary, and he believes in occasional sudden convulsions and upheavals, and natural catastrophes. But there are processes of denudation and deposition clearly traceable, and capable of actual measurement. The speed varies according to circumstances,

but taking the sediment moved by rivers to the ocean as an example, he says:—

In some cases the lowering of the surface of the land may be as much as $\frac{1}{1000}$ of a foot in a year, in others it falls as low as $\frac{1}{6000}$. In other words, the rate of deposition of new sedimentary formations, over an area of sea-floor equivalent to that which has yielded the sediment, may vary from one foot in 730 years to one foot in 6,800 years. If now we take these results and apply them as measures of the length of time required for the deposition of the various sedimentary masses that form the outer part of the earth's crust, we obtain some indication of the duration of geological history. On a reasonable computation these stratified masses, where most fully developed, attain a united thickness of not less than 100,000 feet. If they were all laid down at the most rapid recorded rate of denudation, they would require a period of seventy-three millions of years for their completion. If they were laid down at the slowest rate they would demand a period of not less than 680 millions."

A considerable part of the President's address consisted of what seems to be an almost extravagant eulogy of the Scottish geologists of just a hundred years ago. The genius of the locality, and the happy thought of the centenary, may perhaps excuse a little over-estimate of the scientific greatness of Dr. James Hutton, the author of the "Theory of the Earth," of his apostle Playfair, and of his successor William Smith. Sir Archibald Geikie was not professing to give a history of geology, and of course he was discouraging to men and women who knew something of that history. But the careless reader of the address may pardonably be advised that the science of geology did not date from 1792, as some of our leader-writers in the daily press have too readily assumed, and the notion of the perpetual changes of sea and land which Hutton made so much of was not by any means his discovery. Very clear conceptions of the constant fluctuations occasioned by rivers, rains, and other natural phenomena were expounded by Aristotle, by Strabo, by Herodotus by Pythagoras, and by other ancient scientists. Herodotus calculated, for instance, almost in the style of the President of the British Association to-day, that the sediment carried down to the ocean by the Nile, would be sufficient, if that river could be diverted into the Red Sea, to fill up that long gulf in from ten thousand to twenty thousand years; and Strabo discusses with astonishing acuteness the phenomena of marine shells being found at vast distances from the ocean. The Arab philosophers took but little interest in the "crust of the earth," but from the sixteenth to the eighteenth centuries, Italian, German, French, and British observers were busy thinking about the development of rocks and so forth. Still, Hutton brought more clearly into view than before the processes which were affecting the earth, and the effects of these processes; and no doubt it is since his time that steady persistent investigation has brought to our knowledge the overwhelming evidences of a vast procession of ages, and species, and conditions, the study of which constitutes geology. By many artistic touches in his really brilliant address, Sir Archibald Geikie shows the fascination of the science of which he is so eminent an expositor, and the concluding passage in which he vaguely, but graphically, sketched the panorama from the Castle Rock down the ages from the dense jungles of strange vegetation, the steaming swamps and broad lagoons and volcanic cones of Silurian times to the busy streets of to-day, is likely to fix itself in the memory of all who heard it, and of many who read it.

MEDICAL PROGRESS.

MR. JOSEPH WHITE, this year's President of the British Medical Association, had the good fortune to be its loca

secretary when the Association visited Nottingham in 1857, and to this fact is due no doubt the exceptional interest of the retrospective address which he delivered last week. It is well that we should look back now and then upon the years of our lifetime, or upon any special era in a science, for it is then only that we can justly estimate advances made or ground lost. Mr. Smith had a safe subject in the Association itself, which mustered only eighty or ninety members in 1857, but now is so strong as to embrace the whole of the United Kingdom and its dependencies, with active working branches which can be numbered in scores. The force and utility of the Association are amongst the living factors in present day medical science, and as most of the famous English medical men of the past and present generations have been or are connected with it, it may fairly claim to have performed a large share of the work constituting the medical progress of that period.

In nothing so much as in sanitation has medical science kept pace with the times, and it was fitting that Mr. White should have referred to the work of Chadwick, Simon, and many other medical officers whose influence upon the doctrines of public health entitle them to the highest rank as social reformers. In its essence sanitary reform is not strictly a part of medical science, but a part of sociology. Its inception is due to those men who were the first to recognise the fact that the poor cannot be elevated until their environment is purified from physical as well as moral uncleanness, and under the nursing of such reformers and enlightened medical men public views on drainage, water supply, house accommodation, and air pollution have grown and ripened until it is universally recognised in this country that the man who violates the common laws of sanitation is as big a nuisance as a pig-stye. And, happily, sanitary reform in common life has developed into as vital reforms in the smaller sphere dominated by the surgeon, with whom now the success of an operation literally depends upon perfect drainage, pure water, and pure air. Antiseptic surgery is the microcosm of hygiene. "Simple cleanliness we may call it," said Mr. White, "not that cleanliness which is the antithesis to ordinary dirt, but that special form of rigorous and refined cleanliness which the pathologist and the chemist alone can appreciate—the attainment of that purely aseptic condition which can only be accomplished by the most scrupulous and watchful care that neither by the condition or surroundings of the patient, nor by the condition of the instruments, nor by the hands of the operator, or his assistants, can those micro-organisms on which we have reason to believe that septicity depends come in contact with a wounded surface, or if in contact shall be destroyed." That is what Listerism has developed into, and on a large scale the nation will yet see similar development from the ideas of the Kingsleys and Chadwicks of sanitation.

Surgery owes much indeed to anaesthetics and antiseptics, or, in other words, to the chemist; but Mr. White gave much larger credit to physiology. He asserted that the horrifying experiments on monkeys, which have secured so much sympathy with the anti-vivisectionists, have established that certain areas of the brain surface are intimately connected with certain bodily functions, and the result of this study, he claims, has been a development of brain surgery which has been the means of eradicating certain paralytic and epileptic diseases hitherto incurable.

It is remarkable, when we turn to medical progress, that we find so much of improved diagnostic skill depending upon physical instruments. The microscope, the laryngoscope, the ophthalmoscope, the sphygmograph, the spectroscope, and various electrical instruments are all of recent

application in diagnosis, and their uses have a specialised function. "But," said Mr. White, "if there is one instrument of precision which has done more than any other to aid us in our efforts of diagnosis and prognosis, it is the modern use of the clinical thermometer, an instrument which was practically unknown at the time of the last meeting in Nottingham."

From this point the President took up the doctrines of preventive medicine, in which we have the latest outcomes of improved knowledge in sanitation. In all these advances nothing is more apparent than the fact that medicine owes much to biology, chemistry, and physics. Biologists have discovered and described the functions of micro-organisms, chemists have provided the means of combating disease, and the study of physics has resulted in the invention and improvement of those instruments which are so helpful in diagnosis. In spite of that, Professor James Cuming, of Belfast, in his address to the section of medicine, seriously discussed the desirability of reducing to a minimum the study of chemistry, botany and physics during the medical curriculum. He says that—

"When the practitioner of medicine has tested for albumen and sugar, and is familiar with the composition and reaction of a few urinary deposits, and knows that a condition of acidity may be temporarily relieved by an alkali, he has pretty completely gained all the information of practical value which chemistry is likely to give him for the needs of his daily work. We may, perhaps, add the tests for the principal poisons and alkaloids."

This is an exceedingly narrow view of the application of chemistry to medicine, and in the light of the progress sketched in the presidential address it seems a generation or two behind the times. What is greatly needed is not minimising, but complete reform of the medical curriculum so far as the pure sciences are concerned. Students require a larger grasp of principles than they at present obtain, and keener appreciation of what biology, chemistry, and physics have done, and may yet do, for the nobler science they are to practise. Without these things medicine is degraded into pure empiricism—the very thing it has been for two generations struggling to free itself from.

COMMENTARY.

CONFERENCE PAPERS.—We are indebted to Mr. W. A. H. Naylor, one of the hon. secretaries of the British Pharmaceutical Conference, for the following preliminary list of papers promised for the meeting to be held in Edinburgh this month:—(1) "Podophyllum Emodi," by J. C. Umney; (2) "Potassium Bromide," by D. B. Dott, F.R.S.E.; (3) "Strychnine Salts," by D. B. Dott, F.R.S.E.; (4) "Notes on Starch Digestion," by G. A. Grierson, F.L.S.; (5) "Note on Ung. Hyd. Nit. Oxyd., B.P.," by Frederick Davis; (6) "*Eugenia Jambolana*: Its Influence on the Action of Diastatic Ferments," by T. Stephenson, F.C.S.; (7) "A New Antidote for Strychnine-poisoning," by James McKenzie; (8) "Proximate Analysis of a Sample of Myrabolanen," by A. Campbell Stark; (9) "Microscopic Examination of some Recent Arrivals of Spurious *Ipecacuanha*," by T. H. Wardleworth; (10) "Valerianate of Zinc," by W. A. H. Naylor.

PATENT MEDICINES IN ROUMANIA.—We are indebted to Messrs. Hodgkinsons, Treacher & Clarke for the following information:—"A recent enactment with regard to the importation of patent medicines and compound drugs into Roumania provides that no such goods shall be allowed entry unless the manufacturer deposits a sum of 100f. (47)

with the Roumanian Customs for every article he desires to import. For instance, a patent-medicine maker who is in the habit of shipping a pill, an ointment, and an emulsion, to Roumania must deposit for each article 100*l.*, the payment of which secures for him the permanent right of importation of any quantity of the same class of goods, subject, of course, to the usual duties and charges. Most of the French patent-medicine people who trade with Roumania have paid the tax, and, unless their British competitors do the same, the sale of such goods as Holloway's pills and ointment, Easton's syrup, Cockle's pills, Clarke's blood-mixture, and others, which are much used in the kingdom, may suffer."

THE SOUTH AFRICAN PHARMACEUTICAL ASSOCIATION.—The eighth annual general meeting of the South African Pharmaceutical Association was held at Cook's Commercial Hotel, King William's Town, Cape Colony, on June 8. There were present: Messrs. W. K. Mager (president), G. E. Cook (vice-president), J. McJannet (hon. secretary and treasurer), P. Gray, R. Lumsden, A. E. Austen, and Serrurier. The balance-sheet showed the receipts for the year 1891 to have been 116*l.* 5*s.* 10*d.*, the expenditure 93*l.* 9*s.* 7*d.*, leaving a balance of 19*l.* 16*s.* 3*d.* Mr. Austen proposed that Mr. G. E. Cook, of King William's Town, be elected president for the ensuing year. In making this nomination, the speaker directed the attention of the members to the very great interest Mr. Cook had taken in this Institution, and said had it not been for Mr. Cook's zealous and untiring efforts it was probable the Association would never have come into existence. The nomination was seconded by Mr. McJannet, and carried unanimously. Mr. McJannet was elected vice-president, Mr. P. Gray hon. secretary and treasurer, and the following gentlemen were chosen to serve upon the executive:—Messrs. Mager, Walsh, McJannet, Austen, Lumsden, Wells, Tebb, and Thomas. Upon the motion of Mr. McJannet it was agreed that the Pharmacy Board be asked to allow certified copies of diplomas to be submitted instead of originals, owing to the danger of the latter being lost in transit. Mr. Mager said he would like to see some means whereby the South African Pharmaceutical Association could be made more popular with both Eastern and Western Province chemists, and hoped that before the next meeting some solution of the difficulty would be found. The discussion which arose upon this point, however, showed a general feeling that the apathy and the pronounced jealousy of the Association alleged to exist in the Western Province would operate against any large extension of the Association's membership in those parts. Mr. Gray pointed out that the Western Association had originally been asked to join the South Association, but no arrangement had been come to, and it was believed that, even if the Societies amalgamated, very little good would result, as it was almost impossible for members to travel such long distances from East to West, consequently only Eastern members would be present at Eastern meetings, and *vice versa*. In connection with this Mr. Mager also stated that a suggestion had been made to the effect that alternate meetings might possibly be arranged for between East and West. His reply had been that if a sufficient number of Western Province chemists joined the Association, probably no difficulty would be found in making an arrangement on the lines suggested.

MARRIAGES.

[Notices of Marriages and Deaths are inserted free if sent with proper authentication.]

COLWELL—JAVENS.—On July 28, at St. James's, Clerkenwell, Mr. J. Kear Colwell, public analyst, to Miss Javens, of Clerkenwell.

EGGLESTON—O'REILLY.—On July 30, at the church of SS. Peter and Paul, Cork, by the Rev. B. Scanlon, assisted by the Rev. D. O'Mahony, John J. Eggleston, M.P.S.I., youngest son of the late Edmund Eggleston, Listowel, to Jennie, only daughter of Denis O'Reilly, Kanturk.

THOMAS—THOMAS.—On July 26, at the Congregational Church, Talgarth, Mr. T. Thomas to Miss Thomas, sister of Mr. David Thomas, chemist and druggist, Talgarth.

WILKINSON—HELYAR.—On July 7, at Christ Church, Woburn Square, London, by the Rev. J. Glendinning Nash, Robert Wilkinson, chemist and druggist, Dunedin, New Zealand, to Clara Esther, youngest daughter of the late Henry Helyar, of Upper Norwood, London.

DEATHS.

BEDFORD.—Referring to the sudden death of the late Professor P. W. Bedford (regarding which we published a cabled message on July 23), the *Pharmaceutical Record*, which he edited, says:—"Mr. Bedford left New York in his usual good health on the afternoon of Monday, July 11, with a large contingent of pharmacists from New York and neighbouring States to attend the fortieth annual convention of the American Pharmaceutical Association, at Profile House, White Mountains, N.H., where his death occurred. He was indisposed on Wednesday, but was somewhat better on Thursday, and his illness was not at that time considered alarming. On Monday [July 18] he was affected with what appears to have been an apoplectic seizure, and notwithstanding the fact that he received every attention which the best skill and care could bestow, he gradually failed, and



passed away at 10.50 A.M. on Wednesday [July 20]." The funeral took place at New York on Friday, July 22. The portrait which we give is from a photograph which we received from Professor Bedford about three years ago. Professor Bedford was born at Johnsville, Dutchess Co., New York, August 1, 1836, and after his apprenticeship to the drug business was an assistant to Mr. Ewen McIntyre, of New York. He left there in 1858 to enter business on his own account in 6th Avenue, and later became connected with the wholesale houses of Tarrant & Co. and Lazell, Marsh & Gardiner. He was a graduate of the New York College of Pharmacy, which he afterwards served as secretary and professor. He also held several secretarial positions in the American Pharmaceutical Association, of which he was President in 1881.

THOMAS.—On July 27, David Thomas, chemist and druggist, Ferndale. Aged 28.

Legal Reports.

A 20*l.* FINE FOR KEEPING A STILL.

At Marlborough Street Police Court, on July 27, Thomas Titley, chemist, of Charlotte Street, Tottenham Court Road, was summoned by the Excise authorities for having in his possession a still for the manufacture of exciseable liquors. Mr. Alpe, barrister, prosecuted, and Mr. Freke Palmer, solicitor, defended. Arthur Llewellyn, a detective supervisor of Inland Revenue, said that he obtained a warrant to search the defendant's premises on June 29, and carrying it into effect the same day, he found a spirit-still in the shop. It was of French make and had never been used. Mr. Titley told him that he bought it of a Frenchman named Sauris, who had it brought from Paris in February, and that he had advertised it for sale in a trade paper. Licences were issued to persons wishing to distil water and essences, but no licence would be granted for such a still as the one in question. He had traced the fortunes of the still since its arrival in England, and found that after being shifted from one part of Loudon to another, it was disposed of to Mr. Titley. Its value was about 25*l.* Mr. Hannay said that the defendant would have to forfeit the still and pay a fine of 20*l.*

THE INDECENT ADVERTISEMENTS ACT.

THOMAS KING, herbalist, of 9 Market Street Lane, Blackburn, was summoned at the police court there on Saturday, under the Indecent Advertisements Act of 1889, for exposing to public view in his window printed matter of an indecent nature. Detective-Inspector Dobson said he saw some small coloured handbills in defendant's window, which contained the following notice:—"Nervous debility, under my mode of treatment, is as surely cured as water quenches thirst. Thousands of young men of rare intellectual promise are annually sacrificed through early indiscretion, and delays are dangerous." Defendant said he had been a herbalist for twelve years, and in the provincial papers advertisements relating to nervous debility were inserted. He did not see how any sensible man could construe the words into an offence. The magistrate's clerk (Mr. Brother) said the words were offensive when read in conjunction with the previous sentences, and a fine of 20*s.* and costs was imposed.

CHARGES FOR EMPTIES.

In the Westminster County Court, on Tuesday, before His Honour Judge Bayley, in which the plaintiffs, Messrs. Cantrell & Cochrane, manufacturers of mineral waters, Woodstock Street, Oxford Street, sought to recover 1*l.* 9*s.* 6*d.*, alleged to be due to them from Mr. Henry James Peacock, a chemist and druggist carrying on business at Beckenham. The plaintiffs' solicitor said the present claim was in respect of bottles and cases which had not been returned. Three months was the outside limit allowed to customers in which to return empties, but in this case the defendant had retained them for nearly eighteen months, and, as he declined to pay for them, the present action was brought.

The defendant said he had dealt with the plaintiffs for some few years, and he thought they were scarcely acting fairly in this matter, because when they first applied for the bottles and cases they had not all been emptied, and therefore it was impossible to return them. Subsequently the plaintiffs made a demand for payment, and he (defendant) was perfectly willing to pay if they would give him an undertaking to return his money when he returned the empties, but they refused to make any such promise. The Judge said it appeared that three months was the time allowed, and the defendant had kept the goods over a year, therefore he thought he was liable to pay for them. The defendant said he thought it was hardly fair that he should have to pay, and, moreover, he disputed the amount of the claim, as he had received several invoices, and each one differed from the other. It was an impossibility that they could all be accurate.

His Honour gave judgment for the plaintiffs, and referred the account to the Registrar to go through the figures.

A VITRIOL-BURN.

An action was recently raised in the Roxburghshire Sheriff Court by Robt. Jamieson, jun., warehouseman, Hawick, against David Kennedy, chemist and druggist there, for 250*l.*, as damages for injuries sustained by the plaintiff through having been burned with vitriol while employed in the defendant's service. The Sheriff has now decided in plaintiff's favour, awarding him 40*l.*, with expenses.

COVENANTS NOT TO CARRY ON BUSINESS.

An important judgment was given by Mr. Justice Chitty in the Chancery Division of the High Court on July 29. The Badische Anilin und Soda Fabrik brought an action against Messrs. Schott and Segner, who had been their agents for the North of England for fourteen years. The plaintiffs have a very extensive business. Their principal works are at Ludwigshafen, on the Rhine, and they have branches or agencies all over Europe, and at New York, Mexico, Rio de Janeiro, Aleppo, Beyrout, Bombay, Calcutta, Damascus, Hongkong, Hio, Rangoon, Saigon, Shanghai, Smyrna, Yokohama, Alexandria, Cairo, Casablanca, Mogador, Tripolis, Tunis, &c. Their agreement with the defendants provided that the latter should have the exclusive agency for articles of the plaintiffs' production in a defined part of England; the plaintiffs bound themselves not to effect direct sales and not to carry on direct correspondence with customers in the same; the defendants were to be paid 1,200*l.* per annum during the continuance of the agreement and also to receive a commission and share of profits; and the defendants covenanted to devote their time and energy exclusively to the plaintiffs' business. The defendants bound themselves, for three consecutive years after the determination of the agreement, not to enter into or start any like or similar business to that carried on by the plaintiffs, nor to give any information of any kind about the business. The agreement came to an end on June 30, 1892, and the defendants then commenced business on their own account in Manchester, as dealers in chemical colours. They admitted the breach of the agreement, but submitted that the restriction was void as being against public policy, as, although limited in point of time, it was unlimited in respect of area, and therefore altogether precluded them from carrying on their business; and they also submitted that the restriction was, under the circumstances, unreasonable.

The Judge, after quoting cases, said the law as it had been interpreted appeared to be that where the restraint is general—that is, without qualification, it is bad as being unreasonable and contrary to public policy. Where it is partial—that is, subject to some qualification either as to time or space, then the question is whether it is reasonable, and if reasonable, it is good in law. He held that in view of the world-wide nature of the trade carried on by the plaintiffs, the unlimited area of the restriction was reasonable, and he thought that to decide otherwise would tend to discourage advantageous contracts of this kind. The plaintiffs had only asked for an injunction limited to the district in which the defendants had acted as their agents, and this interim injunction his Lordship granted.

METHYLATED LINIMENT OF IODINE. THE BOARD OF INLAND REVENUE CAUGHT NAPPING.

At the Stockport Police Court on Wednesday afternoon, before the Mayor (Colonel Turner) and a full bench of magistrates, Mr. John Cash Arnfield, chemist and druggist, Lower Hillgate, Stockport, was summoned by the Excise authorities for that he used methylated spirits in the preparation of an article capable of being used wholly or partially internally as a medicine. Mr. William Saunders, acting supervisor of Inland Revenue, prosecuted, and Mr. Jesse Herbert, barrister, Birmingham, instructed by Messrs. Glasier and Porter, solicitors, Birmingham, defended. There were a number of chemists and druggists from the district present in Court, which was crowded.

Mr. Wm. Saunders, who appeared to prosecute, said: This is a case instituted by the Commissioners of Inland Revenue. I will not detain your worships any longer than I can help, but it is necessary that you should clearly understand upon what grounds we are proceeding. Until a few years ago all spirits that were used in manufacture had a duty on them, but there was such a great demand for some class of spirits that the trade was crippled and the Excise authorities allowed, on certain conditions laid down, that spirits could be used in certain manufactures free of duty; but in allowing this privilege of course, as you understand, it was necessary also to lay down certain restrictions, and those restrictions were these: any person who wishes to use methylated spirits in any art or manufacture first of all has to obtain the consent of the Commissioners of Inland Revenue.

Mr. Herbert: Where do you find that?

Mr. Saunders here handed to the magistrates a copy of the Spirits Act of 1880, and suggested the Bench should follow him in his quotations from that Act. Proceeding, he said: Having obtained such consent—and here comes an important point—he has to enter into a bond that he will use those spirits according to the regulations laid down by the Commissioners of Inland Revenue.

At this point, Mr. Herbert asked if Mr. Saunders was a solicitor.

Mr. Saunders: I appear here just the same as the Attorney-General.

The Magistrates' Clerk: Not quite.

Mr. Saunders: Well, then, the same as the Solicitor-General.

The Magistrates' Clerk: He has the rights of a solicitor in this case.

Proceeding, Mr. Saunders said: Your worships will see 43 & 44 Vict., c. 24, s. 130, ss. c. & d., reads as follows:—"If any person, authorised user of methylated spirits, uses any methylated spirits, or any derivative thereof, in the preparation of any article capable of being used wholly or partially as a beverage, or internally as a medicine, or sells or has in his possession any such article, in the preparation of which methylated spirits, or any derivative thereof, has been used, he shall for each offence incur a fine of 100*l.*, and the spirits with respect to which the offence is committed shall be forfeited."

It will probably be contended, continued Mr. Saunders, that there is no harm in using these things, but our contention is that if we were to allow a preparation of these spirits to be made—of spirits on which other traders had to pay duties—the honest trader would be handicapped. And it is as much in the interest of the honest trader as in the interest of the Excise authorities that this prosecution has been ordered. We contend that, in applying for permission to use the methylated spirits, Mr. Arnfield bound himself to use the spirits in accordance with the regulations laid down by the Spirits Act of 1880. The evidence I shall produce will be to this effect. Two analysts attended on April 29 at Mr. Arnfield's shop, and visited the premises. They found on a shelf in the rear of the premises a bottle labelled "liniment of iodine methylated." Mr. Arnfield was present, and said he did not sell it in the shop, but supplied it to medical men, and did not know but what he could do that legally. He volunteered to destroy the preparation, which, after taking samples, the analysts allowed to be done. The samples were sealed, and sent the same day by post to Somerset House laboratory, where they were found to be as labelled on the bottle. Liniment of iodine, although intended for external use, can also be used internally, and I may say that in the British Pharmacopœia the liniments shown there are shown as being manufactured from duty-paid spirits. Our commissioners, studying the convenience of trade, allowed exception in the case of four liniments—soap, compound-camphor, aconite, and belladonna liniments. Your Worships will see that the chemist is restricted from using duty-free spirits in the manufacture of any other liniment but those mentioned. We charge Mr. Arnfield with using methylated spirits in another liniment. Mr. Arnfield is supplied with a notice containing all the regulations to be observed in regard to the use of methylated spirits. Mr. Arnfield is bound to observe those regulations. The spirit revenue reaches nearly thirty millions, and you can understand the concession I have spoken of was made directly in the interests of the trade, and any contravention of the Act

only tends to limit its usefulness, and would to a certain extent lessen the Revenue.

The Magistrate's Clerk: Are the regulations you speak of made in pursuance of the statute?

Mr. Saunders: Yes.

Dr. Edwin Rayner (a magistrate and medical officer of health of the borough): What law is there that says you shall not use methylated spirits in liniments?

Mr. Saunders: I can answer that better by reading the 120th section, which says, "The Commissioners may, if they think fit, authorise any person to receive methylated spirits from an authorised methylator for use in any art or manufacture carried on by him. The authority shall not be granted until the applicant has given the prescribed security that he will use the methylated spirit in the art or manufacture, and for no other purpose, and that he will observe the provisions of this Act and the prescribed regulations."

Dr. Rayner: There is nothing there about it at all. Where does it say that a liniment shall not be made with methylated spirits?

Mr. Saunders: Subsection C of the 130th section, which I have read, says that if the liniment is capable of being used as a medicine Mr. Arnfield is liable to a penalty of 100*l.*

Evidence was then called.

Mr. Henry James Helm, F.I.C., and one of the analysts of the Board of Inland Revenue, said: On April 29, in company with another analyst, Mr. Davies, I visited the premises of Mr. Arnfield, chemist. I found a bottle containing about 2 quarts of liniment of iodine. It was labelled as methylated. I told Mr. Arnfield that liniment of iodine was not allowed to be made with methylated spirits. He appeared to know that so far as his shop was concerned, because he said he never sold it in his shop. There he always sold the liniment of iodine made with pure spirit, duty paid. This liniment he supplied to doctors when ordered by them. I told him that even under those circumstances he was not allowed to supply liniment of iodine made with methylated spirit. He then volunteered to destroy it, which we allowed after taking samples, and without prejudice to any further proceedings which the Board might think fit to take. I sealed the sample and sent it off by the same day's post to the Inland Revenue Laboratory, Somerset House, to be analysed.

Mr. Saunders (to Mr. Herbert): Is it disputed that this liniment was made as the witness has described?

Mr. Herbert: No.

Mr. Saunders (to witness): In your opinion, Mr. Helm, is liniment of iodine, although intended for external use, capable of being used internally?

Witness: Yes; there is nothing in it to prevent its use internally. It has the same ingredients as tincture of iodine, only that the iodine is in stronger proportions—about five times stronger—and there is a little glycerine in it.

Mr. Saunders: All you would have to do would be to slightly dilute the one preparation to make it a substitute for the other?

Witness: Practically so.

Cross-examined by Mr. Herbert: What is the actual difference in strength of the tincture and the liniment?

Witness: Liniment is about five times stronger than tincture.

Mr. Herbert: Tincture is 1 in 40, and liniment 1 in 8?

Witness: Something like that.

Mr. Herbert: I observed, when it was put to you that liniment is capable of being used internally as medicine, it was suggested that it could be diluted. Do you mean by that that it only then becomes capable of being used as a medicine?

Witness: No; taken in proportionately smaller doses.

Mr. Herbert: That is, that iodine liniment may be used simply by prescribing smaller doses than you would with tincture?

Witness: Precisely so.

Have you had any experience at all of prescribing?—No, I am not a medical man.

Can you tell me whether liniment of iodine has ever been prescribed for internal use?—No.

You have never heard of such a case?—No.

What dose of the liniment do you say would be too much to be taken internally as a medicine?—Judging by the dose recommended of the tincture, about 4 or 5 drops would be a dose of the liniment.

And you say that 4 or 5 drops of the liniment can be taken neat—if I may use that phrase—as a medicine?—Quite so.

Why did you call upon Mr. Arnfield?—We knew him as an authorised user of methylated spirits, and we were visiting all such persons.

He knew what you came for, and he took you round?—Yes.

There was no concealment?—No.

And the Winchester, in which this liniment was, was labelled?—Yes.

From first to last Mr. Arnfield has not concealed his idea that he was right in using it?—No.

Mr. Saunders: We don't impute any such thing.

The Magistrates' Clerk: It is right that that should come out in the interest of the public.

Mr. Herbert: And in the interest of my client. Mr. Saunders admits that Mr. Arnfield has acted openly and frankly, and in good faith, and that the only question before the Magistrates is whether Mr. Arnfield was legally right in doing what he did.

Mr. Saunders: Yes.

Mr. Herbert (to witness): Mr. Arnfield said he never sold the liniment in his shop, but supplied it when prescribed by the doctors?

Witness: Yes.

The Mayor: How long has Mr. Arnfield been in the possession of the notice containing the regulations?

Witness: Since August 5, 1891.

The Mayor: Are not the soap, camphor, aconite, and belladonna liniments capable of being used internally?

Witness: They are not absolutely.

Mr. Saunders: The Board of Inland Revenue have relaxed the regulations in so far as regards those four liniments.

The Mayor: How do they arrive at these being the proper liniments to be exempted?

Mr. Saunders: Because there was such a demand for them. I daresay it is a common thing for brewers and distilleries to be allowed indulgence from the Board.

The Mayor: Can you give us any reason why iodine should not be added to that list?

Mr. Saunders: I cannot say. It is very difficult to explain everything that emanates from the higher powers.

Dr. Rayner: You say liniment of iodine can be taken in a dose of four or five drops. How do you make that out?

Witness: I judge that by the dose of tincture of iodine.

Dr. Rayner: From your experience do you know that liniment of iodine can be taken in such a dose?—I should not mind taking it myself.

Dr. Rayner: Would you take a second dose?—Yes.

Mr. Saunders: You mean diluted with water?—Yes.

Mr. Herbert: Before you said you could take it neat?

Witness: I beg your pardon; I must have misunderstood the question. I meant diluted with water.

Mr. Herbert: But I put the suggestion "neat" before you, and you said yes.

Witness: I should have no objection to take it in the same way that tincture of camphor is taken—that is, on sugar.

Mr. Herbert: Then your courage equals your skill. (Laughter.)

Another witness was then called—George Lewin, F.I.C., one of the analysts of the Board of Inland Revenue—who said he had examined the sample sent from Mr. Arnfield's shop, and found it to be liniment of iodine prepared with methylated spirits. Such a preparation was also capable of being used internally as a medicine.

Mr. Herbert: Are you a medical man, and have you ever prescribed?

Witness: No.

Upon what do you base your statement that liniment of iodine is capable of being used internally as a medicine?—The relation of its position to tincture of iodine.

In the same way as the last witness?—Yes.

Mr. Herbert: Rather a mathematical problem than a medical statement.

This concluded the case for the prosecution.

Mr. Herbert, addressing the Bench for the defence, said: May I clear the way, first, by referring to the fine which is said to be applicable to a case of this sort. The statute

provides for a fine of 100%, but if the magistrates find the case proved, they have power, under the Summary Jurisdiction Act of 1879, to reduce that fine as much as they like, according to the gravity of the offence. Now we come to what is said to be the offence. I think I may say, without any injury to my friend, that he has confused restrictions with enabling powers. The section upon which these proceedings are brought is a very simple section, and refers as much to me, or to your Worship, or any other person, as to a medical man or a chemist who has been made the authorised methylator. My client is charged with "using" methylated spirits in the preparation of a liniment of iodine. The offence is using, and not with having in his possession. You have no evidence that Mr. Arnfield used this. That he was in possession of it you have evidence. The case for the prosecution is closed, and there is not a scintilla of evidence that my client used this preparation, and certainly not on April 29. I ask my friend what he proposes to do? Is he going to ask your Worships to alter the summons, and make it "that he had the article in his possession"; or does he still say that he charges him with having used it?

The Magistrates' Clerk: I drew your attention to that, Mr. Saunders. I have been waiting for the evidence as to using, but there is none.

The Mayor: There is no evidence that he used that liniment.

The Magistrates' Clerk: You will have to take out a fresh summons, Mr. Saunders.

Mr. Saunders: It will all have to be heard over again.

The Magistrates' Clerk: Perhaps the learned counsel might consent to an amendment of the summons.

Mr. Saunders: If he does not it will mean the expense of having the case tried over again. My friend has a very slight technical point on this.

The Magistrates' Clerk (smiling): It is a very strong one.

Mr. Herbert: My client is charged with using the preparation. I expected to hear evidence as to the using, but I find that this preparation is stored up, and there is no evidence of it being used. This is a criminal offence subject to a heavy fine, and the authorities of this country, with the assistance of my friend, are sufficiently learned to know the difference between using and having possession of. This is an offence which was said to be committed on April 29. We are now in August. They cannot have been taken by surprise. If they have been napping, it must have been a very long nap indeed. I really cannot consent to an amendment of a summons in such a radical manner as this. It is an amendment of offence.

Mr. Saunders: I will leave it entirely with your Worships. I don't know whether they have the power to amend the summons.

The Magistrates' Clerk: The learned counsel has a right to object.

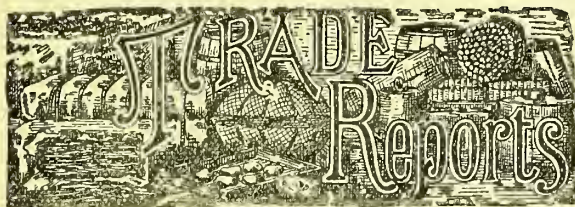
Mr. Saunders: The case will have to be heard again.

The Mayor: It evidently fails now. The case will be dismissed.

Mr. Herbert applied for costs for the defendant, and the Magistrates granted them, subject to taxing by the Clerk of the Court.

FOR SLEEPLESSNESS, that world-famed writer, "G. A. S.," advocates the use of *eau sucrée* flavoured with a few drops of orange flower water. The effect, he says, has always been inexpressibly soothing and reposeful.

CHEWING-GUM is not popular in England, and we question if it will ever be; but an American india-rubber paper is of a different opinion. "It is a curious fact," says our contemporary, "that in England they do not chew gum, but rather look down upon the habit as being vulgar, and of the small quantities that have been shipped abroad but little has been sold. The time, doubtless, will come, however, when this democratic habit will overcome the prejudices of our cousins across the water, and when the Prince of Wales will be seen with a quid of American gum in his mouth, chewing it with as much gusto as a Bowery boy." English druggists would have a new line of business then, but some insular prejudices and common decency in the matter of chewing and expectorating in public places have to be overcome first.



Notice to Retail Buyers:—It should be remembered that the quotations in this section are invariably the lowest net cash prices actually paid for large quantities in bulk. In many cases allowances have to be added before ordinary prices can be ascertained. Frequently goods must be picked and sorted to suit the demands of the retail trade, causing much labour and the accumulation of rejections, not all of which are suitable, even for manufacturing purposes.

It should also be recollected that for many articles the range of quality is very wide.

42 CANNON STREET, E.C., August 4.

The London Markets.

ACID (CARBOLIC).—Two tin-lined casks of 3½ cwt. each, white crystals, were offered without reserve, but could not even find a buyer at 1¼d. per lb., and were, therefore, bought in. The position of the article has further improved, and for 95° liquid acid 1s. 9d. per gallon must now be paid, a large volume of business having taken place up to that figure. Crystals, 34–35°, are quoted at 5d. to 5½d.; 39–40°, at 6d. per lb.

ACID (CITRIC).—The exports of citric acid from London have been:—

	1839	1890	1891	1892
	Cwts.	Cwts.	Cwts.	Cwts.
In July	614	440	190	430
Jan. 1 to July 30	3,507	3,659	2,787	4,500

ACONITE.—For fair small Japanese root, 22s. is now asked.

ALCOHOL.—Prices are just a shade higher this week; 9d. per proof gallon, c.i.f. terms, would probably have to be paid for best German potato spirit, in bond, in quantities of 2,000 gallons.

ALOES.—The only aloes offered at to-day's sales (with the exception of six bags described as Cape aloes, from Bombay, which was too common to elicit a bid, even at 5s. per cwt.) was *Curacao*, of which 161 packages were shown; most of this sold at from 10s. to 11s. 6d. for ordinary dull to medium Capey. There has just been an arrival of 40 cases of aloes from Cape Colony. It was much wanted.

ANISE.—*Russian* seed of last year's crop has been selling here privately at 19s. per cwt. At auction 25 bags of East Indian were shown and bought in—they are held for 17s. 6d.; ten cases mouldy and spurious *Japanese* star-anise are limited at 40s. The crop in Russia is reported to have suffered much from unfavourable weather and insects, besides which the acreage planted has been very small this year. Hence the quantity available for export will be exceptionally small.

ANNATTO-SEED.—For medium reddish *West Indian* seed 2d. would be accepted; and dark and dull-coloured sold at 1½d. to-day, which is rather lower.

ANTIMONY.—Crude Japanese is quiet at 26l. to 27l. per cwt. on the spot.

BALSAM (CANADA).—Two barrels good quality, rather dull, sold at 1s. 2d. per lb., which is about the fair market value.

BALSAM (PERU).—The price for good quality balsam, direct import, *via* Liverpool, is 4s. 9d. per lb.; 9 cases were bought in at that figure.

BUCHU.—In small supply, only two bales being offered to-day, for which there was a very good competition; they were rather yellowish round leaves, and sold at 4d. to 4½d., which is an advance of ½d. per lb. Eleven bales have just arrived from the Cape.

CALUMBA.—There is an excellent demand for this root, and of the 160 bags offered at to-day's sale the unusually large proportion of 129 sold, with competition, at very firm prices. Medium to bold fair yellow mixed, 40s. 6d. to 43s. 6d.; rather dark mixed and partly wormy, from 37s. down to 32s.; ordinary grey sorts, 29s. down to 27s. The finest lots were comparatively the cheapest.

CAMPHOR (CRUDE).—A report was received here a few days ago, and has since been confirmed, to the effect that a ship, having 2,000 piculs on board, and bound from Japan to the United States, has been entirely lost. This circumstance has contributed to render the market firmer than it was. *China* camphor has sold at 127s. 6d. per cwt. on the spot, and *Japan* at 125s. c.i.f. terms. On the spot the latter kind is held for 135s. per cwt.

CAMPHOR (REFINED).—The recent imports of Japanese refined camphor have all been sold, and this article is reported to be moving off well. Five cases (of new import) of good squares were bought in to-day, an offer of 1s. 5d. being refused for them; the owner wants 1s. 5½d. *German* is held at 1s. 5½d. per lb. net, and is firm at that figure. The *English* makers have made no alteration—they still quote 1s. 6½d. to 1s. 7d. per lb., usual discount, according to quality.

CANARY-SEED.—Our Liverpool correspondent writes on Wednesday night:—"The market for Turkish is excited to-day. Fine bright has sold freely at 60s., and now 65s. is asked."

CANABIS INDICA.—In demand, but at a slight sacrifice in price. Of 63 robbins, about half was sold to-day at 3½d. for good green tops, and from 3d. down to 2d. for good to common siftings. In Liverpool, 3½d. per lb. has been paid for a small lot.

CANTHARIDES.—For 7 boxes *Chinese*, fairly bold to somewhat wormy flies, a bid of 11½d. was refused, 1s. being the price. New *Russian* flies are being offered at lower prices—2s. 9d. per lb., c.i.f. terms, being mentioned; but there is no demand, even at this low figure.

CARAWAY-SEED.—The first batches of the new Dutch crop are of good colour, but small grain; but it is expected that the seed harvested later on will be much darker, as the weather during the harvesting period has been unfavourable.

CARDAMOMS.—In very small supply, the lots offered to-day being not sufficiently important to form a guide as to the position of the article. *Mangalore*, medium and somewhat yellow pods, are held for 2s. 3d. to 2s. 4d.; fair medium brown *Aleppy* were bought in at 1s. 11d.; a parcel of medium to bold slightly brownish long and round mixed *Mysore* sold at 1s. 6d.; and for pale *Malabar* seed from 1s. 4½d. to 1s. 5d. was accepted, which shows a slightly lower price.

CASCARILLA.—In rather large supply; 57 bags were partly disposed of at prices ranging from 30s. for fair bold round and grey mixed, partly damaged, to from 21s. 6d. down to 19s. 6d. for thin small brown and dusty mixed; good bright quill is held for 36s. per cwt., but was not sold to-day.

CASSIA FISTULA.—Two bags somewhat lean but nice and fresh pods from *Dominica* sold cheaply at 16s. per cwt.

CHAMOMILES.—For 30 bales old but good pale Belgian flowers an offer of 56s. was refused, the price being 60s. per cwt. The prices of the new Belgian chamomiles are gradually sinking. Good pale flowers have been sold this week at 99s. to 92s. 6d., but the general quotation is 100s. Last week the closing price was 107s. 6d. per cwt., and a further fall is anticipated.

CINCHONA.—The exports from Java for the month of July have been very small, being returned at 285,000 Amsterdam lbs., against 1,164,000 in July, 1891. For the first time the exports from the island show a decline, reckoning by the season closing on July 31.

COCA-LEAVES.—The only lots offered were four 28 lb. bags: of good green leaves, of fair flavour, from Ceylon. The price for these is 1s. 5d. per lb.

COLOCYNTH.—Dull of sale; pale, slightly seedy mixed *Turkey* apple is held at 1s.; pulp at 8d. per lb.

CUBEBES.—There is a very steady demand privately for this drug, and most parcels are being sold as they are landed on the basis of about 7l. for good bright berries. At to-day's auctions 6l. was accepted for two bags small mixed and very stalky. The *Agamemnon* brought us 54 bags from Shanghai last week.

CUMIN-SEED.—New *Maltia* is not yet offering; for old crop 40s. per cwt. is now asked, and the last sales have been at the rate of 38s. per cwt. At auction an offer of 15s. was refused for a parcel of 38 bags fair *East Indian*.

ERGOT OF RYE.—The first parcel of new crop ergot was sold to-day at a price which marks some decline in value; it consisted of 5 bags very fine bold new *Spanish*, which realised from 2s. 1d. to 2s. 2d. per lb. Old crop sold as follows: wormy and dusty *Spanish*, 1s. 9d. to 1s. 11d.; ditto *German*, 1s. 6d. per lb. The demand is good, and part of the new arrivals of this year's crop has been sold privately.

FENNEL SEED.—Sixty-five bags good bright seed from Bombay are held for 14s., an offer of 13s. being declined.

GAMBIER.—Sales of fair block are reported on the spot at 17s. 10½d. per cwt.

GAMBOGE.—Part of the new arrival, consisting of 27 cases nice small to bold run pipe, slightly damp, but mostly of good orange fracture, sold to-day with good competition (which shows that the article is wanted), at a decline in value of 10s. to 20s., namely 12l. 10s. per cwt. Six cases of Saigon pipe, rather ricey and dull mixed, were bought in at from 13l. 10s. to 16l. per cwt. Advices from Saigon, dated July 3, state that on that date the stock of gamboge was limited to a small quantity of first-class gum.

GINGER.—Washed rough *Cochin* ginger has advanced to 46s. per cwt., at which price 400 bags have been sold this week.

GLYCERINE.—Exceedingly dull of sale, best double distilled German s.g. 1260 is offering now at 42s. 6d. to 43s. per cwt.

GUARANA.—For 1 package of very broken and dull sausage 4s. per lb. is asked.

GUM AMMONIACUM is neglected, and holders are anxious to sell. Of 30 packages shown to-day only one, fair partly almondy block, rather drossy, mixed, sold cheaply at 23s.; fair drop, partly blocky, was bought in at 50s. per cwt.

GUM ARABIC.—At auction to-day a new consignment of 61 bags of Cape gum sold with good competition at almost steady prices—namely, 5l. 5s. to 6l. 2s. 6d. for fair, rather drossy, to good pale soft sorte, and from 38s. to 45s. for ordinary brown glassy.

GUM BENZOIN.—*Siam* gum was in rather large supply to-day, and sold at a decline in price, fine bright small to bold almonds in block at 13l., small ditto at 10l., bright sittings in block at 88s. to 100s., brown ditto at 60s. to 62s. 6d.; this is a decline of about 20s. all round. *Palem-bang* gum realised 45s. for good bright almondy block, and 10 cases fair *Sumatra* seconds, almondy centres, but false-packed corners sold at 5l. 15s. The supply of *Sumatra* gum is small, and it is said that the stock of this variety has been much reduced.

GUM ELEMI.—A portion of the recent arrival, consisting of 48 cases, was shown to-day. The quality was fair, but somewhat dirty mixed, and of weak flavour. It appears that somewhat lower prices than those recently ruling would be accepted, but to-day an owner refused 37s. 6d., as being several shillings below his ideas.

GUM GUAIAIACUM.—Fine qualities bring high prices—witness a case of good bright almonds in block which sold at 2s. 6d. per lb. Ordinary drossy and woody gum sold at from 3d. to 7d. per lb. The sales of guaiacum in Liverpool during the month of July were 114 boxes.

GUM MYRRH remains exceedingly scarce, and high prices must be paid for anything of good quality. Fair but rather dusty sorts shown at auction were held at 85s., while fine picked *East Indian* was bought in at the high price of 9l.

GUMS (VARNISH).—At last Thursday's auctions most varieties of gums were in small supply. Scraped *Mailla*

Copal was somewhat cheaper in price. *Batavia Damar* kept its value very well, good pale, partly small mixed realising 55s. to 58s. per cwt.; but *Singapore* gum was utterly neglected. *Gum Kowrie* was slow of sale, at barely steady rates for fine scraped, while most other kinds sold at a more or less marked decline. The following prices were realised:—Scraped, fair to fine pale "Deal," 7l. 15s. to 12l. 12s. 6d.; amber and brown to good pale, 90s. to 7l. 5s.; half to three-quarter scraped, 53s. 6d. to 96s. per cwt.; ordinary dark to good pale bold chips, 16s. to 71s. per cwt.; ordinary to fine pale *Bnsh* gum, 50s. to 6l. 7s. 6d. per cwt.

HONEY.—The tendency is decidedly towards lower prices. Of 67 barrels *Jamaica*, only 16 sold to-day, at from 24s. to 29s. for rather dirty to good bright brown liquid. *Australia* honeys are in good supply, and also selling at somewhat lower rates—half candied, fairly clean brown to amber 23s. 6d. to 27s.; rather dirty brown liquid, from *Brisbane*, at 27s. per cwt. *Chilian* honey is in poor demand in *Liverpool*, while small lots of *Californian* have sold at 40s. to 42s. 6d. per cwt.

IPECACUANHA.—Of 88 packages *Rio*, 50 sold to-day at a decline of about 2d. to 3d. per lb. for ordinary to medium grades; good root, which would probably be well bid for, was not offering; ordinary thin woody to fair bright annulated sound realised from 5s. 5d. to 6s. 1d.; first-class damaged, also, 5s. 5d. to 6s. 1d.; and second-class from 5s. 4d. to 5s. 8d. per lb. *Carthagenaz* root, which is in good supply, is also slightly cheaper, good brown stout a little damaged selling at 4s. to 4s. 1d. per lb.

JALAP.—Only 5 bales were offered to-day; the quality was good heavy *Vera Cruz*, and they were bought in at 1s. 7d. per lb.

KOLA.—Fourteen bags very common wormy African seed sold at ¾d. per lb. to-day. In *Liverpool* the market is very much neglected, and no sales are reported.

LIME-JUICE is falling in value somewhat rapidly; the highest price paid has been 1s. 11d. for a single puncheon of of *West Indian*, but at the auction to-day several packages were bought in at 1s. 8d. per gallon, and less would be accepted. New arrivals are now coming in, and there is no prospect that prices can be kept up.

LIQUORICE.—About 200 bales of *Turkish* liquorice were shown to-day; they were all bought in. Prices are as follows: Decorticated, good stout, 35s.; thin and ordinary, 16s. to 18s.; good stout natural, 27s.; common to fair ditto, 11s. to 16s. per cwt.

MAGNESIA SALTS.—*Sulphate* of magnesia is quiet and slow of sale, at 60s. per ton; *Carbonate* may be had at 32s. 6d. per cwt.; and for *Calcined*, in 1-cwt. cases, 10d. per lb. is wanted.

MUSK.—In very small supply. *Tenquin* remains steady for thin blue skin, first-pile pods, of which two caddies small to bold, slightly damp, well-trimmed, sold at 73s.; old-fashioned first-pile pods are also steady in price, 47s. to 47s. 6d. being paid for small to bold well trimmed, rather damp and of pure flavour.

NAPHTHA.—*Wood naphtha* is very depressed, and may be had at low prices—miscible 60 o.p. at 4s., and solvent at 4s. 3d. per gallon.

NUX VOMICA.—Nearly 700 bags were offered for sale to-day, but the demand was slack, and only 23 packages sold, at 9s. to 9s. 6d. per cwt. for rather dark seed from *Colombo*.

OIL (CASTOR).—Sales took place at to-day's drug auctions of 70 cases good pale *Calcutta* oil, which brought 3d. per lb., without reserve. For 50 cases fair *Coconada* seconds 2½d. per lb. is wanted. Advices from *Calcutta*, dated July 5, state that the stock and the output of oil remain small, because the rainy season continues to impede pressing-operations, and seed, especially from the *Madras* coast, is in small supply. The market is firm.

OILS (ESSENTIAL).—*Star-anise* oil is again a little cheaper. Five cases "unworked" sold at 6s. per lb. to-day. A parcel of *West Indian* essential oils, from *Dominica*, was withdrawn. It consisted of 14 bottles *Lemon-grass*, 4 bottles *Patchouly*, and 1 bottle *Vétiver* oil, all of fine quality. For 7 cases

Japanese *Peppermint* oil (each containing two 42-lb. coppers) the holder declined a bid of 5s. 8d. per lb., 5s. 9d. being his figure. Oil of *Lemon* has advanced in Sicily, and the prices now run from 9s. 6d. to 10s. 6d. per lb., London terms, for fine qualities. Oil of *Bergamot* is also dearer. For Japanese *Peppermint* oil (Cocking's) 6s. 9d. per lb. is asked by the importers, and the same brand of *Menthol* is held by them at 10s. 6d. per lb.

FAREIRA BRAVA.—A small parcel of long thin brown root sold "without reserve" to-day at the very low price of 20s. 6d. per cwt.

PATCHOULI.—A parcel of 35 bales African leaves has been sold at 2½d. per lb. in Liverpool.

PERMANGANATE OF POTASH.—The cholera scare has not been without effect upon this article, of which the price has twice been raised 5s. per cwt. by the combination of makers. The last rise was announced on Tuesday, and prices now are 82s. 6d. per cwt. for large, and 77s. 6d. per cwt. for small crystals.

QUASSIA.—The market is very quiet, Jamaica wood being worth from 80s. per ton for fresh to 100s. for old selected. At to-day's auctions 6 tons of the former kind sold at 80s. per cwt. Other parcels were bought in.

QUICKSILVER.—Market dull. Importers held at 7l. 2s. 6d., second-hand holders offer at 6l. 17s. 6d. per bottle.

QUININE.—The market closes with a somewhat firmer feeling; there are no sellers to-day at 8½d. per oz. in the open market. At auction, however, 2,000 oz. *Brunswick* quinine in bulk (supposed to be very old stock) sold "without reserve" at 8½d. per oz. Some few small sales, aggregating about 10,000 oz. of German bulk from second-hands, on the spot, are announced this week at 8½d. per oz., which shows a slight recovery, the lowest point touched before having been 8½d. per oz.

QUININE-SEED.—Of 16 bags Cape seed, 6 sold to-day at 7d. per lb.

RHUBARB.—A very good assortment was offered to-day, consisting of 121 cases, 49 of which sold at irregular prices, Shensi being mostly cheaper. Arrivals continue to come in from China. The following were to-day's prices:—*Shensi*, medium to bold, good coat, even, pinky fracture, round, 2s. 6d.; bold root, good coat, partly grey and loose, three-fourths pinky, one-fourth dark fracture, flat, 2s. 2d.; small ditto, 1s. 9d.; medium to bold, round ditto, 1s. 10d.; slightly smaller, 1s. 9d.; medium, fair coat, partly rough, three-fourths pinky, one-fourth dark flat, 1s. 6d.; small ditto, and loose fracture, 1s. 2d.; bold, rough-coated, round and flat, mixed, three-fourths pinky, one-fourth dark, 1s. 2d.; druggists' root, fair small to dark, 1s. 3d. to 1s. 7d.; fair pickings, 1s. 2d. *Canton*:—medium to bold, even pinky-grey fracture, round, 1s. 4½d. *High dried*:—small to medium, fair coat, pinky fracture, flat, 1s. 5d.; smaller size, 1s. 4d. per lb. There have been rather large arrivals (some 76 cases) from China this week.

SAFFRON is quite 1s. dearer since last week. To-day's quotation for best Valencia is 23s. per lb. f.o.b., which is equal to about 24s. 3d. per lb. London terms.

SARSAPARILLA.—*Honduras* root was rather cheaper at to-day's sales, though not lower in comparison to the prices privately paid. Of 24 serons 10 damaged ones sold at 1s. 3d. to 1s. 3½d. for Crown Brand. Of red *Jamaica* root fine bright quality realised 1s. 4d. to 1s. 5d., ordinary to fair from 9d. to 1s. 1d. per lb. Eight bales chumpy *Mexican* root, mostly damaged, were bought in at 1s., a bid of 7½d. not being obtainable. 19 bales genuine bright *Guayaquil* root, a variety which has not been seen here for a considerable time, sold at 13½d. for fair sound, and 9½d. to 10d. for damaged root.

SCAMMONY.—"I hear scammony is likely to be very scarce this season," said a broker to-day upon offering some; but the statement evidently received but little credence. We reproduce it, however, for what it is worth. None was sold to-day, although several lots were offered. For fair roots 35s. per cwt. is wanted.

SHELLAC.—The speculative market has been much firmer, and the sales include August TN at 83s. 6d. and October ditto at 84s. per cwt. Garnet lac has been sold on the spot

at 72s. to 73s. per cwt. short prompt. At the close, however, the feeling is easier, 82s. 6d. having been accepted for October delivery of TN orange.

SQUILLS.—A parcel of 17 bags of fair pale quality sold at 3d. per lb. to-day.

TEA.—The first cargo of new season's Kaisows arriving last Saturday brought buyers back punctually on Tuesday morning after the holidays, and a fair trade has been done, the crop apparently promising to be a good one. Panyongs and Chingwoos have sold from 8½d. to 1s. 2d., while the crack chops of Somoo fetched up to 1s. 1½d., and met a ready demand. Common New Season Kaisow has sold in sale as low as 5½d. per lb. and 5½d. per lb., and on the whole, as with Monings, prices have opened at a reasonable level, and one which should help the consumption. A considerable sale of Indians and Ceylons (mainly Indians) went off steadily for all good liquoring sorts on Thursday, this being the only Assam or Ceylon sale for the week. Poor liquoring kinds are very cheap, though terminals are a suspicion firmer for later months.

TONGUIN BEANS.—*Angostura* beans of the new crop are being offered at 6s. 9d. per lb. c.i.f. terms. A fair quantity of *Pará* were shown at auction to-day, and some found buyers at 1s. 4d. for very foxey, and from 10d. to 1s. for very common mouldy. An offer of 1s. 11d. was refused for fair black, and one of 2s. 6d. for frosted, the prices wanted being respectively 2s. 6d. and 3s. per lb. A Liverpool correspondent writes us, under date of August 3:—"During the early months of the year several arrivals came to hand, which owners at first held off the market for previous high prices. In May and June some orders for cheap beans were received, and at first firmly refused; gradually, however, importers gave way, and accepted bids of 10d. and 11d. per lb. for about 40 cases low foxy *Pará* quality, selling a few single cases of good frosted at the same time at 1s. 10d. to 2s. During July further inquiries were experienced, which resulted in the sale of 44 cases, including common to fair, at 1s. 3d. to 1s. 4d., and good to fine frosted at 1s. 8d. to 1s. 11d. per lb., clearing the market of all available at these figures. There is still some stock here of common, held for 2s., and fine, held for 3s., but the total quantity will not exceed 30 cases; the recent purchases are all being shipped. The present is about the usual time for collecting the beans in Brazil, and we therefore expect to receive further arrivals in the course of the next six weeks or two months, but have no definite advices up to the present upon this point."

TURMERIC.—The market is very firm, and arrivals as they come to hand are being rapidly taken up. *Madras* root is particularly scarce, and held at from 30s. to 32s. 6d. per cwt. *Bengal* is also firm at 20s., while for good bright finger *China* 20s. is wanted, and for ditto mixed with bulbs 18s. per cwt. At auction to-day 12 cases of two cwt. each, bright genuine powder from Bombay, were partly sold at 25s. per cwt.

WAX (BEES').—Of *Jamaica* wax 48 packages sold readily at an advance of fully 5s. per cwt., namely, 7l. to 7l. 10s. for good red to fine orange, and 6l. 15s. to 6l. 17s. 6d. for rather mixed red. *Madagascar* wax, which is in large supply, declined about 5s. in value, 80 packages being sold at 5l. 5s. for fair bright mixed; 7 bags of *South American* wax from Rio Janeiro, yellow and grey mixed colours, sold at 5l. 10s. to 5l. 15s. per cwt.

THE LIVERPOOL MARKET.

CANARY-SEED.—This continues to advance, and sales of bright *Turkish* have been made at 57s. 6d. There are many interested parties who think prices will be much higher still, and who are holding off.

HONEY.—*Californian* is firmly held. Fine yellow is offered at 42s. 6d. per cwt.; 40s. was bid for a big parcel, but the price was refused.

IPECACUANHA.—A further parcel of the *Carthagena* description has arrived, and will be offered at auction next week.

OIL (CASTOR).—Good seconds *Calcutta* are held at $2\frac{3}{4}d.$, first-pressure *French* at $2\frac{11}{16}d.$, and second-pressure at $2\frac{1}{16}d.$ per lb.

SPERMACETI.—The only parcel here—American blocks—is held firmly now at $1s. 5d.$ per lb.

WAX (BEES).—There are further large arrivals of *Chilian*, but prices are firm— $7l.$ to $7l. 10s.$ for finest.

THE SMYRNA OPIUM MARKET.

SMYRNA, August 3.

THE American manufacturers have entered our market as purchasers this week, and bought 45 cases manufacturing opium of the new crop at the parity of $6s. 1d.$ to $6s. 5d.$ per lb., f.o.b. here, according to quality. Our market closes very firm.

BRITISH AND FOREIGN CONSULS' REPORTS.

CHINA.

Camphor-trading under Difficulties. The exports of camphor from the island of Formosa (China camphor) were larger in 1891 than in any previous year. The export jumped from 7,717 cwt. in 1890 to 19,953 cwt. in 1891. At one time the Hong-Kong market fell so low as to show a slight loss on every shipment, but the local firms continued buying, and were eventually rewarded for their perseverance by a rise in the market. The camphor business experienced a serious check, however, in the autumn, when an outbreak took place among the aborigines of the island, who, unable to distinguish between the Chinese caretakers of the camphor stills and furnaces built with foreign capital and their usual foes, attacked the Chinese generally and destroyed numbers of stills. Nothing could be done, the Chinese being quite unable to protect the stills or punish the savages; so one resident, who had considerable capital invested in the business, boldly penetrated into the interior—at a time when the Government troops and savages were at daggers drawn—and managed to make satisfactory arrangements about the balance of his money and stills. Those destroyed will doubtless be a dead loss, but it is interesting—though not, perhaps, consoling to the losers—to see that a solitary foreigner can safely venture with a Chinese interpreter into territory which the Government troops do not dare to approach.

The adventurous foreigner mentioned above was not an Englishman, no British firm having as yet taken up the camphor-trade. Practically the whole of the camphor was carried under transit pass, 134 passes having been issued in the course of the year.

PERSIA.

Business Bad. In Persia (at least, in that portion of it which falls under the supervisory eye of our consul in Bushire, on the Persian Gulf) trade is very bad. Failures among native merchants have been plentiful, the markets are glutted with unsaleable goods, crops looked poor in the beginning of the year, and the silver decline did the rest. Hence several steamers have been discontinued, and poverty and dissatisfaction alone are flourishing.

Opium. The opium-crop of 1891 was unusually large, but, owing to the fall of prices in China, speculators were heavy losers. Shipments, however, varied very little, being slightly larger to London, where it is usually sent by European firms for use in the preparation of morphia, and smaller to China. The fall in prices has been as marked as it has been rapid. Only two or three years ago shippers could obtain $14s.$ per lb. in London. Now they can get no more than $7s. 6d.$, and as this article has been often exported to the extent of 7,000 chests, it is obvious how many interests are affected by these fluctuations in value.

Almond-kernels and Gum. A considerable trade in almond kernels (for oil-pressing) was done during the early part of the year, but large crops in Europe sent prices down, and the export from Persia has ceased to be profitable.

Gum arabic is exported in fair quantities, chiefly by Persians, and fetches good prices. In 1890, 8,066 cwt. were shipped; in 1891, 17,016 cwt.

PERU.

The Opium Monopoly. Opium is imported into Peru in large quantities. By an Act of the Peruvian Congress, dated October 31, 1887, the handling of the drug has been constituted a monopoly, giving its lessees the sole right to import and sell opium. All those committing infractions of the regulation given by Government will suffer the following penalties:—Confiscation of the opium; loss of the vessels, vehicles, or animals used in its transportation; and a fine of not less than 20*l.* per lb.; and the smugglers, concealers, and their accomplices will be prosecuted criminally. All informers are entitled to the value of the opium at its cost price in bond, and the monopoly cedes to them its right to half the fine. Owners and masters of vessels are specially warned to take all necessary precautions to avoid receiving opium concealed or under the name of other merchandise, for Peruvian ports

Personalities.

MR. ARTHUR ANGELL has been appointed county analyst to the Hampshire County Council.

MR. H. M. STANLEY, the African explorer, visited the Dartford works of Messrs. Burroughs, Wellcome & Co. on Friday, July 29.

MR. JOSEPH HENRY TEBBUTT, wholesale chemist and druggist, Coventry, has been elected a freeman for Gosford Street Ward, and was admitted by the Mayor, Mr. G. Singer, last week.

MR. SAMUEL LAWRENCE, of Oban, has purchased the chemist and druggist business at 23 Cromwell Street, Stornoway, lately carried on by Mr. T. C. Henderson. The business will be under the management of Mr. A. E. Watson.

DR. HORACE DOBELL, who formerly practised in London as a specialist in chest diseases, and latterly has practised at Bournemouth, has finally retired from practice. In future he will reside at his new seat at Parkstone Heights, Dorset.

MR. JOHN MILNE, of Ladywell, S.E., asks us to correct the statement made in our report of the British Medical Museum, that the manufacture of his antiseptic dressings has changed hands. The statement is without his authority. Mr. Milne claims to have made these dressings for Sir Joseph Lister since the great surgeon came to London.

MR. F. H. GLEW, chemist, of 156 Clapham Road, has sent us a photograph of a flash of lightning taken by himself on June 28 last at 9.50 P.M. A reproduction of this photograph is published in the August number of *Knowledge*, which contains also a letter from Mr. Glew, explaining that the flash was taken in a camera, the lens of which was secured to the hammer of an electric bell, giving nine vibrations per second. Mr. Glew gives his reasons for calculating that the flash lasted about one-twentieth part of a second.

A PATRIOTIC citizen of Hereford has written an historical account of the city, which has just been published, with many excellent illustrations. Most of the book is devoted to descriptions of prominent local business people and their establishments. On the cover is a portrait of Mr. W. F. Chave, of the firm of Chave & Jackson, and Mayor of the city. Mr. Chave, it appears, has no longer a pecuniary interest in the chemist's business. He is now the proprietor of Wm. Evans & Co.'s cider and perry manufactory, where they can crush 20 tons of apples a day; and he is also, along with Mr. J. J. Jackson (who now owns the firm of Chave & Jackson), interested in Wilk's Plant-food Company, of which a glowing account is likewise furnished.

BANKRUPTCY REPORTS.

Re JONATHAN STEPHENS, Devonport, Chemist and Druggist.

THE adjourned public examination of this debtor was to have taken place at the Stonehouse Bankruptcy Court last week, but on the application of the debtor's solicitor (Mr. J. G. Jackson) a further adjournment until September 6 was granted. Debtor had, it was said, compiled a goods and cash account for four years, in compliance with the order of the Court, but the accounts were so voluminous, consisting of 195 sheets of foolscap, with ten columns of figures on each, that they had not time to make a second copy of them. They had found that during the four years the debtor had paid away over 20,000*l*.

Re JOSIAH EDWARD ANDERTON, Crown Street, Halifax, Chemist.

A MEETING of the creditors in this case was held at Halifax. No statement of accounts had been filed; but the Official Receiver said that, so far as he could ascertain, the liabilities would amount to 300*l*., and the assets to 180*l*.. The estate was left with the Official Receiver to wind up.

Re ALFRED EGBERT WORFOLK, 15 Beauchamp Road, late 28 Galveston Road, Wandsworth, Surrey, Chemist and Druggist. The following are scheduled as creditors:—

	£	s.	d.
Arrocks, R., Hackney Wick	10	3	6
Buckingham, J., Wandsworth	10	8	6
Davis & Co., London	10	0	0
Evans, Lescher & Webb, London	10	0	0
Ford, Cardiff	30	0	0
Ford, Shapland & Co., London	10	7	0
Hodgkinsons, Treacher & Clarke, London	10	7	4
Horsnell Bros., Wandsworth.. .. .	13	13	2
Jones & Co., London	33	0	0
London & Southern Counties Advance Bank, London	14	10	0
Mercantile Bank, London	33	0	0
Molyneux, J., London	13	2	6
Parritt, W. C., Bradford	15	0	0
Pohl, G., Dantzic	33	15	6
Sanger & Sons, London	26	3	11
Smith & Co., London	10	4	0
Spencer, O., London	12	10	0
Sutherland, M. A., London	331	6	6
Tye & Sons, London	74	11	6
Verdon, London.. .. .	23	5	0
Worfolk, B. S., Barnsley	28	0	0
Whitaker & Grossmith, London	10	3	11

Preference.

Martin, H., London	10	6	8
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The accounts filed show liabilities to unsecured creditors 849*l*., and net assets estimated at 18*l*..

Re CHARLES BENJAMIN SPRAGGE NORTON (lately trading in co-partnership with others as the Castle Pharmacy and the Castle Tea Company), late Castle Street, Bristol, Chemist.

AN application was made at the Bristol Bankruptcy Court on Friday last week, before his Honour Judge Metcalfe, for the discharge of the above bankrupt. It appeared that the bankruptcy took place some years ago, and in 1890 the debtor applied for his discharge, which was refused.

From the report of the Official Receiver it appeared that the debtor had not kept proper books of accounts, and he had contracted further liabilities after becoming aware of his insolvent position. The debtor alleged his failure to have been caused through the failure of others.

In reply to questions the debtor said [the chemist and druggist's business was purchased by his wife, but now she was dead, and he had carried on the business for the benefit of his children.

The Official Receiver said he had not heard of the death of debtor's wife, and he thought, no doubt, that was the reason of the present application.

Finally, his Honour adjourned the case until October, in order that the Official Receiver might be enabled to investigate the matter.

DEEDS OF ARRANGEMENT.

The following deeds of arrangement with creditors have been filed at the Bills of Sale Office, under the provisions of the Deeds of Arrangement Act, 1867. Some of these deeds are for the purpose of carrying out compositions with creditors (and such are specified below), but the great majority of them are "assignments" in the ordinary form, to a trustee or trustees, for the benefit of creditors. The Act referred to expressly provides that registration shall not give validity to any deed which is an act of bankruptcy, and there is no provision, in the Act making any of these arrangements binding upon dissenting creditors.

Pentney, James Chapman, residing at Dereham Road, Higham, Norwich, trading as J. C. Pentney & Co., Northumhrian Printing Works, St. Benedict's Street, Norwich, printers; and as J. C. Pentney, St. Benedict's Street, Norwich, chemist. Trustee, Charles Larking, Norwich, F.S.A. Dated July 15; filed July 22. Unsecured liabilities, 5,138*l* 11*s*. Composition of 8*s*. 6*d*. in the pound, payable 4*s*. within fourteen days from July 23, and 4*s*. 6*d*. on September 23; last instalment secured by sureties. The following are scheduled as creditors:—

	£	s.	d.
Aston Paper Mill Co., Birmingham.. .. .	12	16	3
Bagshaw, G. & R. G., Norwich	30	1	6
Birmingham Paper Mill Co., Birmingham	19	1	9
Brocklehurst, H., London	198	5	2
Brooks, T., Norwich	14	6	0
Byrne, E., & Co., London	251	19	1
Coleman & Co., Norwich	52	3	4
Collins, Son, & Co., London	49	12	10
Cookson & Macdonald, London	319	8	0
Davis, J. T., London	17	5	6
Deed, J. S., & Son, London	10	1	9
Dewhurst, S., & Co., Salford	13	6	9
Fenner, Appleton & Co., London	18	19	8
Flowers, H., Norwich	25	0	0
Gray's Paper Works (Limited), West Thurrock	80	12	0
Grosvenor, Chater & Co., London	125	0	3

Openshaw, Thomas Walker, trading as T. W. Openshaw & Co., Heys, Oswaldtwistle, and 3 Hornby Street, Oswaldtwistle, chemical manufacturer. Trustee, John Duckworth, Church Street, Accrington, auctioneer and valuer. Dated July 19; filed July 22. Unsecured liabilities, 936*l* 12*s*. 4*d*.; estimated net assets, 648*l* 1*s*. 2*d*.; creditors fully secured, 636*l* 1*s*. The following are scheduled as creditors:—

	£	s.	d.
Adley, Tolkein & Co., Blackburn	93	17	5
Bayley, F. S., & Co., Manchester	51	14	4
Furness, R., & Co., Church	156	2	5
Haworth, John, & Co., Church	14	16	11
Holmes, George, & Co., Hull.. .. .	12	0	4
Mackay, George J., Liverpool	29	18	9
Manchester & Liverpool District Banking Co. (Lim.)	850	1	1
Metcalf, William, Church	213	17	9
Reid, J. A., London	77	5	10
Shelton, G. & G. W., Manchester	14	2	11
Ward, A. F., Accrington	21	9	10
Whittaker, Henry, Accrington	16	4	2

Gazette.

PARTNERSHIPS DISSOLVED.

Ainley & Davidson, Halifax, physicians, surgeons, and accoucheurs.

Kuhn, B. W., & Schroeder, C. F. (under the style of B. Kuhn & Schroeder), Manchester, drysalers.

THE BANKRUPTCY ACTS, 1833 AND 1891.

ORDER MADE ON APPLICATION FOR DISCHARGE.

Marshall, Arthur Willis, Chorlton-on-Medlock, Lancashire, chemist—discharge suspended for two months.



Memoranda for Correspondents.

Always send your proper name and address: we do not publish them unless you wish: if you do not, please use a distinctive nom-de-plume.

Write on one side of the paper only; and devote a separate piece of paper to each query if you ask more than one, or if you are writing about other matters at the same time.

If you send us newspapers, please mark what you wish us to read.

Ask us anything of pharmaceutical interest: we shall do our best to reply.

Before writing for formulæ consult the last volume, if you have it.

Letters, queries &c., will be attended to in the order received.

The Cinchona Syndicate.

SIR,—Some weeks ago I read in your columns a notice and prospectus of a proposed cinchona "Association." It was not the first I had heard of it, but the details were interesting—the more so as I was the first, some years ago, to propose a union of planters and merchants, with a view to giving a "fillip" to the bark market.

As to the attitude of the planters towards the scheme, I need only refer you to my former letter. At the present prices these gentlemen cannot live, much less keep up their estates. My figures have been confirmed by those issued by the Java Government. An output of 260 lbs. per acre, with $4\frac{1}{4}$ per cent. average analysis and 1*l*. unit, means starvation to a proprietor or "no dividends" to a company.

It must be further noted that this item of 260 lbs. per acre includes a considerable vanishing-point in the future, and for this reason: A very considerable portion of the bark exported from Java has been root-bark, and no root-bark can be taken unless trees are uprooted. But in order to emphasise yet further the present untenable position of the cinchona-producer and his ultimate supply of bark, I venture to give you a few figures with regard to our own small district. Out of, say, 1,700 acres planted with cinchona, 373 acres (nearly 20 per cent.) are being, or have during last season been, coppiced; and this in spite of the fact of our average analysis being higher than that of the Java planters, and the mark of our district being the well-known "Elephant" brand.

Then, again, our outturn per acre is above that of our Java confrères, an average of 500 lbs. of shavings per acre being not uncommon, and 800 lbs. per acre having just been realised on this and an adjoining estate.

It will be apparent to you that if, with all these circumstances in our favour, estates here are sold for a song, and a very old one at that, or coppiced, the cinchona-planter is reduced to his last legs. Only the capitalist can hold out, and even he will prefer to put his "eggs into other baskets," if some remedy is not shortly found to give a "quinine" tonic to the market.

And I believe that the planter has at last awakened to the necessity of co-operation with merchants and others, subject to an equitable arrangement with the merchant being arrived at.

And, with regard to this latter question, it will be necessary for the founders and merchants to issue an estimate of the "office and general costs" of working the Association, and they should sign an agreement to keep within these estimated costs, subject to heavy damages, just as the planters sign, agreeing to sell their produce on the stated agreement, with the penalty of being heavily mulcted if they don't adhere to their word.

It will be evident to my brother planters that, with 800 lbs. per acre of well-known "Elephant" bark, I have not advised them selfishly. It would certainly have paid me better to say, "Those who cannot do as I do, let them go to the deuce with a low unit; my time will come the sooner and the stronger." But since I have never said this, I hope and believe that my letters will have the more effect in convincing my brother planters of India and Java of the

value of my advice—"Work together, and co-operate with the merchants and brokers."

Shortly such co-operation must be and will be effected, and I am certain it will not harm either the retail chemist, the wholesale druggist, or the manufacturer. The purchasing public will have to pay more for their ounce of quinine, but, considering the amount of manual and brain work an ounce of quinine represents, and the immense benefit the public derives from a judicious use of the drug, there is no hardship in the consumer having to pay a shilling or two more for the many doses contained in an ounce of quinine.

While upon this latter subject—i.e., the consumers' point of view—I would advise your constituents, if they wish to increase their sale of quinine, to suggest its being taken in ginger wine—say 3 grs. to a wineglassful. Taken in this way it is agreeable, and quite equal to a sherry and bitters.

I am, Sir, yours faithfully,

Manalé, Deirkulam, Madras,

J. ROSENBERG.

June 30.

Essence of Coffee.

SIR,—We observe that in your issue of July 9 you refer to the experience of the Glasgow sanitary inspector in regard to the proportion of caffeine contained in essence of coffee, and you quote the results obtained by a French chemist as corroborative, to some extent at least, of the Glasgow analyses.

Our experience is exactly the reverse of both the authorities referred to. Coffee is easily robbed of the alkaloid in the process of essence-making. It is not, however, so simple a matter to recover the caffeine again from the essence. In our opinion more knowledge is wanting on this point to enable analysts to estimate correctly the percentage of caffeine contained in such essences as come under their notice. At present there is much harm done to the popularity of essence of coffee by analytical reports, framed—necessarily—perhaps, so as to indiscriminately condemn all brands, finding their way into the public print, where they are usually allowed to pass unchallenged.

Not longer ago than yesterday we made a test of our essence in the ordinary course, and had no difficulty in obtaining a yield of 1.6 per cent. caffeine. This, you will observe, is a favourable result as compared with those you quote.

Yours truly,

21 Duke Street, Edinburgh,

T. & H. SMITH & Co.

July 27.

The Tartaric-acid Case.

SIR,—Referring to the report of the proceedings of the Woolwich Local Board of Health v. Mr. G. M. Smith, in your issue of July 23, will you allow me state that I did not say the tartaric acid in question had been supplied by my firm? As a matter of fact, it was not. The questions put to me, and my answers, referred to the process of manufacture generally, and not to any particular make or sample.

I am, yours obediently,

29 Mincing Lane, E.C.,

THOMAS BENNETT.

July 28.

Kerr v. Kerr.

SIR,—In your report of divorce proceedings—Kerr v. Kerr—published on July 23, and just brought to my notice, you mention, "The respondent, before marriage, had been in the employ of Messrs. Marshall & Snelgrove." It should have been "the petitioner." If you will kindly correct this error in your next issue you will greatly oblige.

Sir, yours faithfully,

6 Duke Street, Portland Place.

August 1.

PAMELA KERR
(The Petitioner).

Assistants in Switzerland.

SIR,—In my letter to you of last week, *re* "Assistants in Switzerland," I said: "In conclusion, I may say that the average, &c., is about ninety hours." This should have been "about eighty hours." I must apologise for making the slip, and, as it makes a good deal of difference, I write to correct.

Lausanne, August 2.

GEORGE CAVE.

Bravo, "Chemist and Druggist"!

SIR,—Well may you have pleasure in offering such a splendid number as your last week's; for advertisements and literary matter it is first-class. I have thoroughly enjoyed perusing it, and, being also manager of a good-going country business, I mean to buy some goods from firms whose advertisements I notice. Your article on "Edinburgh and its Pharmacies" is very good; photos, excellent. I am an Edinburgh worthy, and one who knows the pharmacies and faces you have reproduced, and they are perfect in likeness.

I am sure your journal must be welcomed by thousands of chemists and assistants each week; I know I often weary for it.

To any who do not subscribe to it I would mention that I find it a very paying investment—pleasant food for the mind, many useful business hints and recipes, and, in fact, I consider it a *sine qua non* for any chemist who wishes to know what's what.

Aberdeenshire.

Yours truly,

SUBSCRIBER. (86/20.)

A Birmingham correspondent writes:—"I must indeed congratulate you on the present Summer Issue of THE CHEMIST AND DRUGGIST. It is indeed a 'work of art,' and all those gentlemen who have advertised deserve our warmest thanks for presenting us with such beautiful and useful advertisements." [A large number of other congratulatory letters have been received, for which we are grateful.]

Fair Questions to Ask.

SIR,—It sometimes happens to a manufacturer that he is sorely put to it to answer with civility questions which appear to him impertinent, relative to the composition of his specialities (which are not patented), especially as he knows in nine cases out of ten these questions emanate directly or indirectly from would-be imitators. But it seems fair to ask when best camphor is quoted on a list and best tartaric acid, whether the former is best English or foreign refined and the second manufactured in England or not, for usually the foreign refined camphor does not come up to the English standard, and a great deal of foreign tartaric acid contains more moisture than the English article of the leading manufacturers.

Also, now that there is so much cutting of the price of methylated spirit, it seems fair to ask whether the spirit used in its manufacture is from grain or from sugar, as usually the former is much superior; and whether the naphtha used in it is English or foreign, as the English is more uniformly reliable and generally free from what is often termed a "fishy taste."

July 27.

Yours truly,

MANUFACTURER. (83/48.)

What is the False Statement?

SIR,—In your note criticising the conduct of our firm you make the following false statement:—"To assist the sale of the medicines a 'black' in gold-braided-livery perambulates in front of Messrs. Hicks's shop distributing handbills." Before you make such statements and comments you ought to take care that they are true. I am quite prepared to defend the conduct of our firm. We have not entered into any more unholy alliance than the retailers of Sequah, and I would suggest that before you preach on this text you should refuse to assist the sale of similar quack remedies by excluding their advertisements.

Yours obediently,

Paradise Place, Queen Street, Cardiff, W. T. HICKS.

August 2.

P.S.—You do not say how many of the Cardiff chemists are suffering from the soreness.

Syrupus Zingiberis, B.P.

Subscriber (86/5) writes:—"In answer to 'Gingerine' last week, you say, 'The B.P. directs syrup of ginger to be made up to a pint.' Would you inform me, through your paper, when the official alteration to that effect was made, and in what edition of the B.P. it may now be found? I find these little things are not generally known."

[We have other letters to the same effect, and indicating that we are in error. Not so. The alteration occurs in the 1888 reprint, and does not appear to have been referred to in the lists of corrections. Our correspondent may be right in regard to the point not being generally known, for we find that it is overlooked in the 1890 "Squire."—Ed. C. & D.]

LEGAL QUERIES.

Consult Alpe's "Handy-book of Medicine-stamp Duty" in regard to patent medicine questions.

General information regarding the laws affecting chemists and druggists is printed in THE CHEMISTS' AND DRUGGISTS' DIARY, 1892, pp. 161-5.

For stamp duties, licences, Customs regulations, &c., see the DIARY, pp. 161-9.

83/39. *B. J.*—The indentures are not invalid because A is not a registered chemist, unless there is a special provision in them that he should be.

83/66. *Bolo.*—A chemist need not label a mixture "Poison," though it may contain a scheduled poison, if the label bear his name and address, and if a copy of the prescription be entered in a book kept for the purpose, with the name of the person to whom it is supplied.

83/50. *Eagle.*—An apothecary may do all that a chemist and druggist may do. If he keep an unqualified assistant, that assistant may not sell poisons except under the direct supervision of the apothecary. Whether the process you describe would be direct supervision is a question for a Court. We should think not. We do not think that a man with the assistants' certificate of the Apothecaries' Society would be legally regarded as qualified to sell poisons, but this is a point which has never come before a Court.

78/50. *C. Windridge.*—If any prescription containing a poison is copied in the prescription-book, the medicine need not be labelled "Poison." It does not matter who the writer of the prescription may be—bricklayer or medical man.

86/48. *Rolyat.*—We gave the following answer to a question similar to yours a few weeks since:—"You would be wise to treat sulpho-cyanide of ammonium as a poison within Part I. of the schedule, though it scarcely comes within the definition of 'metallic cyanides and their preparations.' In case of a prosecution, however, a Court might object to subtle chemical distinctions."

86/66. *W. M. L. W.*—You are liable to a penalty of 10*l.* under the Poisoned Grain Prohibition Act if you sell or expose for sale any grain, seed, or meal which has been rendered poisonous.

MISCELLANEOUS INQUIRIES.

Inquirers will please read the "Memoranda for Correspondents."

A list of "Books for Chemists" is given in THE CHEMISTS' AND DRUGGISTS' DIARY, p. 317.

For all particulars regarding Educational and Examination matters refer to our issue of September 19, 1891.

Replies to queries are inserted according to the space open in any week, and insertion on any specific date cannot be guaranteed.

Back numbers of our weekly issue, containing formulæ, &c., occasionally referred to in answers, can be obtained from the Publisher at 4*d.* each.

77/50. *Ajax.*—The process now generally employed for De-blooming Mineral Oil is a simple one—viz., the addition of a minute trace of oil-soluble orange aniline. Another method is to heat the oil to 90° F., and add to each gallon 1 oz. of mono-nitro-naphthalene in small crystals.

82/7. *Robur*.—(1) Not in our line. (2) See our issue of November 28, 1891, page 798, for a formula for lime-juice and glycerine.

77/47. *Scotty*.—The oil which gives the Odour to Russia Leather is oleum rusci (birch tar).

77/42. *J. F. H.*—Directions for making Stone Ginger-beer will be found in our issue of August 8, 1891, page 230; see also page 31 of the current volume. For hints on brewing see Stevenson & Howell's book on aerated waters.

77/31. *Inquirer*.—The composition of the clay used by the potter has much to do with the glaze. Your customer should get the part of Spon's "Encyclopædia" dealing with pottery (see DIARY, page 323).

76/70. *Balloon*.—Use methylated spirit for fire-balloons.

78/15. *Johannes*.—Moustaches are extremely shy of invigorators, but soap and a razor are the elements which are attended with greatest success. Try that plan for a year or two, and let us know how you get along.

79/2. *J. J. M.*—See the selection of formulæ in our last issue. There are plenty of developers there for instantaneous work.

78/12. *A. P. S. (Dingwall)*.—You have not sent your name, but in medical matters please repose your confidence in your doctor, not in us.

77/74. *H. & P.*—Liquid Glue is now generally made from fish-skins by solution in weak acetic acid, and preservation with boric acid. The following formulæ are good:—

Glue	10 oz.
Water	26 oz.
Nitric acid	10 drachms

Soften the glue in the water, then add the nitric acid and boil for several hours.

Gelatine	10 oz.
Glue	10 "
Spirit	3 "
Alum	2 drachms
Acetic acid (20 per cent.)	20 oz.

Mix the whole, and when the glue is soft, transfer to a suitable vessel with a cover, and heat for six hours.

77/37. *F. D. (Budapest)*.—For the Disinfection of Sick-rooms, in which patients suffering from infectious diseases have been lying, it is now recognised that the fumes of burning sulphur are most certain in destroying the microbes. Any method which will give a copious supply of sulphurous-acid gas may be used, such as throwing sulphur on a charcoal fire, in the centre of the room; but in this country, sulphur candles and "thiocamf" are often employed, as being more elegant and less dangerous. It is advisable to clear the room of furniture, especially pictures or other gilt articles, and keep the doors and windows closed while fumigation is proceeding. After a day the room may be opened, aired, and all paint and woodwork washed with carbolic soap. You can with advantage study the advertisements in last issue, so far as they relate to disinfectants.

81/53. *Barometer*.—We have not particulars of the arrangement.

82/37. *F. & H.*—Wood is Ebonised by treating with decoction of galls and then with a solution of an iron salt (copperas). After several days' exposure it is polished in the ordinary way. Bone black and similar pigments are useless.

111/15. *Restorer*.—(1) The Golden Fluid for the hair is solution of hydrogen peroxide. The fact that a bottle of it burst in a customer's cupboard is an indication that the temperature of the cupboard was somewhat high. (2) People who supply labels like this should also give formulæ:—

THE UNIVERSAL HAIR-RESTORER quickly restores grey hair to its original colour. It is quite harmless, easy of application, has a pleasant perfume, assists the growth, and keeps the head perfectly free from all scurf and dandruff.

DIRECTIONS FOR USE.—Shake the bottle, and with a piece of sponge or soft brush apply it every day till the hair is sufficiently dark, and then as frequently as is necessary to keep the colour.

What is meant is, doubtless, Sulphur Hair-restorer, which has no particular efficacy in promoting growth and removing dandruff. The formula is:—

Milk of sulphur	3iij.
Acetate of lead	3iss.
Glycerine	3v.
Essence of white rose	5j.
Water to	3viij.

Mix the sulphur (not B.P. precipitated) and acetate with the glycerine and essence in a mortar, and gradually add the water.

81/59. *Amma*.—To make Coloured Varnishes for windows use a filtered spirit varnish, and colour with a spirituous solution of aniline dye the colour required. The varnish ultimately peels off, and the glass should be thoroughly dry and warm when the varnish is applied.

112/4. *Ferrum*.—We cannot advise you in the matter.

80/40. *H. C. (Lausanne)*.—Listerine is a proprietary compound antiseptic, for which Messrs. S. Maw, Son & Thompson are agents in this country. Its composition is indicated in the formula given in THE CHEMIST AND DRUGGIST, January 30, page 136.

82/25. *Nil Desperandum*.—See the article on "A University Degree for Pharmacists" in our issue of March 19, and get the London University particulars in regard to the matriculation examination. These will guide you as to the books to get. The examination is a very severe one, and if a candidate fail in one subject he is rejected in the whole. No other examination is accepted in lieu of it. Many work for the examination while at business.

83/40. *E. J. F. (Paris)*.—Seller's Mist. Bismuthi Co. is a proprietary preparation which you can obtain through any London house. For a similar preparation, see THE CHEMIST AND DRUGGIST, January 9, page 64.

83/41.—*Zeno* gives neither name nor address. 83/46.—*Lignum* withholds his name.

83/56. *W. D. (West Indies)*.—Communicate with Barnett & Foster regarding small ice-making machines.

83/5. *Taffy*.—In your attempts at Silver-plating you have omitted the most important thing—the silver salt. See our issue of August 8, 1891, page 230.

82/53. *Wild Cherry*.—See last week's "Correspondence."

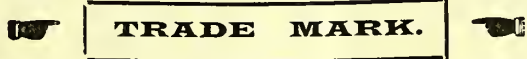
83/22. *Raspberry*.—To colour Granular Citrate pink use cochineal-colouring; the flavour is essence of raspberry, and should be added after granulation.

Information Wanted.

Replies to the following are requested by subscribers of THE CHEMIST AND DRUGGIST.

78/54. "Oleum scinthoria." Where obtainable? How prepared, or what is usually sold for it?

IMITATIONS OR SUBSTITUTES. CONDY'S FLUID



Another Injunction Granted.

ON 17TH MAY, 1892.

Before Mr. JUSTICE MANNING.

CONDY & MITCHELL, LIMITED, V. BUTTERFIELD.

(Proprietors of Condy's Fluid)

(Chemist and Druggist)

"On the motion of Mr. Alfred De Lissa, who appeared for the plaintiff Company, Mr. Justice Manning made a decree for a Perpetual Injunction, with costs, to restrain the defendant from applying to any preparation which had not been manufactured by the plaintiff Company the term "Condy's Fluid," or from using any label which was an imitation of the plaintiff Company's label."

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ORIGINAL
GRANULAR
EFFERVESCENT
PREPARATIONS.

"**ALFRED BISHOP**" was the Inventor and Original Manufacturer of all Granular Effervescent Preparations. All others are imitations. **SILVER MEDAL, HIGHEST AWARD, PARIS, 1889.**

MAGNESIA CITRATE (1st Quality). We have reduced the price of our best Magnesia as follows:—In $\frac{1}{4}$ -lb. and $\frac{1}{2}$ -lb. from 2/2 to 2/- per lb. In 7-lb. or $4\frac{1}{2}$ -lb. per cwt. at 1/8 per lb., less usual discounts.

MAGNESIA CITRATE (2nd Quality). This is a first-rate article at a low price. It is made as carefully as our best, and will keep quite as well. Excellent for Chemists' own bottling. 1/3 per lb., less usual discount; per cwt. 1/- per lb. nett.

SALINE. Made either in powder or fine granules. This is an excellent preparation, made with the utmost care. Sold in bulk in 7 lbs. or $4\frac{1}{2}$ lbs. at 1/3 per lb., less usual discount; per cwt. 1/- per lb. nett. Also in 8-oz. and 6-oz. capsuled stoppered bottles, plain or labelled, at 9/- per doz. and 7/3 per doz. nett; per gross 98/- and 80/- nett respectively. Special terms for large quantities.

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„ Rhæi Co., P.B.	8d.	4/3
APERIENT. 105 (Each Pill contains $\frac{1}{2}$ gr. of Calomel)	...	8d.	4/3
106 As No. 105, with 1 gr. Calomel in each Pill	...	8d.	4/8
107 As No. 105, without Calomel	...	6d.	4/3
110 Hospital Pills, each containing $\frac{1}{2}$ gr. of Calomel	...	6d.	4/8
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62 Hydrarg. Pil. gr. i; Ext. Coloc. Co.; Pil. Rhei Co. aa. gr. ij.	...	1/-	8/6
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COUGH.			
164 Pulv. Ipecac. Co.; Pulv. Gum. Ammon. aa. gr. iss.; Pulv. Scillæ gr. i.; Saponis Hispan. gr. ss.	...	7d.	5/-
167 Pulv. Ipecac.; Pulv. Scillæ aa. gr. $\frac{3}{4}$; Pulv. Capsici; Pulv. Opii aa. gr. $\frac{1}{4}$; Pulv. Gum. Ammon.; Ext. Conii aa. gr. i.	...	8d.	5/6
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289 Rhei Pulv.; Potass. Sulph. aa. gr. iss.; Pulv. Sapo. Hyps.; Ol. Ricini aa. gr. ss.; Ol. Crotonis gr. $\frac{1}{16}$...	6d.	4/-
TONIC. 370 (Blaud's Formula)	...	6d.	4/-
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Packed in 1 ounce tins.
Total weight about 1½ oz.
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REFINED AND RECRYSTALLIZED.

PURE AND CHEAP.

ANALYSIS.

Bicarbonate of Soda	97.20
Mono Carbonate of Soda	1.90
Sulphate of Soda	trace
Chloride of Sodium035
Moisture82
Insoluble	nil

PURE ALKALI,

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Bleachers, Dyers ; Glass, Paper, and Soap Makers.

CONCENTRATED CRYSTAL SODA

(Sesqui-Carbonate).

By far the Purest and Cheapest form of WASHING SODA.

Only 1 lb. of Concentrated Crystal Soda required to do the work of 2 lbs. of Washing Soda.

SODA CRYSTALS

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*Manufacturers of Soda by the Ammonia Process,***NORTHWICH, CHESHIRE.**

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SHOULD SEND FOR OUR NEW



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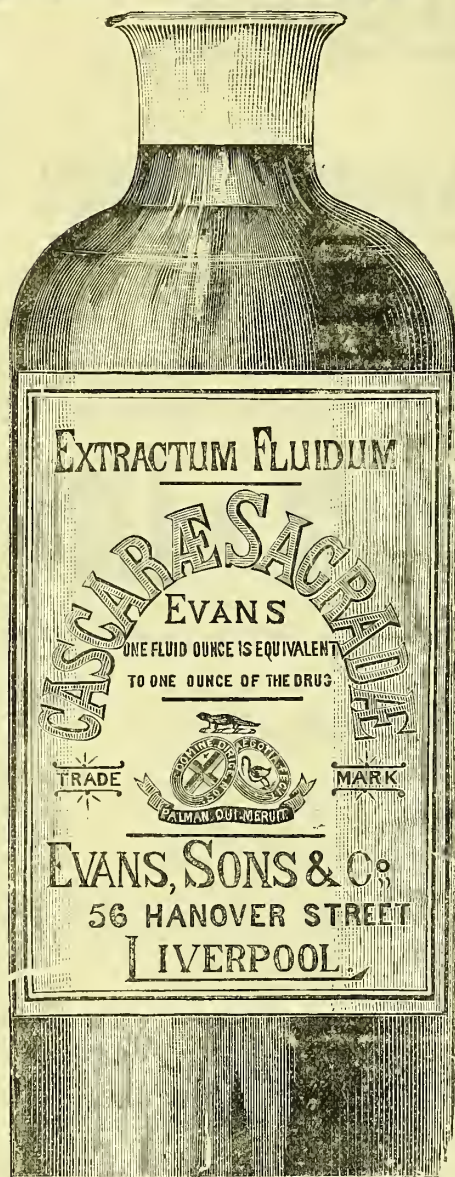
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SPECIMEN OF BOTTLE AND FRONT LABEL.



EVANS' FLUID EXTRACTS are now perfected in our laboratories. They are prepared by elaborate processes, with the menstruum most suited to each individual drug; they contain the whole of the active medicinal properties. Infusions, decoctions, tinctures, wines, and syrups can be obtained from these fluid extracts, by mixing one minim for every grain of the drug. They are put up in airtight glass bottles, of 5, 10, and 20 fluid ounces, capsuled, with a large gold front label; a special feature, to assist in dispensing, is the back label, containing full scientific names, botanical origin, description, medical properties, dose, strength, active ingredients, &c.

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This preparation is a Mixture, in definite proportions, of Chlorate of Potash, English Tartaric Acid, Bicarbonate of Soda, and a little Cane Sugar. The proportion of these ingredients always remains the same. This and the pleasant excess of acid characterise EVANS' SALINE. A dry mobile powder, dissolving perfectly.

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Pearl-coated, readily soluble, prepared in our own laboratory, with best drugs only, such as are used in all Evans' Pharmaceutical Preparations.

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Savars' and Hawley's 6d. and 1/ tins, with coloured floral design.

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In COUGHS, ASTHMA, BRONCHITIS, INFLUENZA, &c., its effects are truly wonderful, immediately relieving the lightness of the Chest, allaying irritation of the Throat, promoting Expectoration, and speedily and effectually subduing the Cough.

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"I am pleased to say that although I have not finished a quarter of the bottle (2s. 3d.) the pain has left my chest, and my cough is almost well." J. BROWN.

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TIC,
SPASMS,
HYSTERIA,
DIARRHŒA,
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CHOLERA,
CRAMP, AGUE,
Sea Sickness, &c.**

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Ditto	2 9	1 3 0
Ditto (3 fluid oz.)	4 6	1 18 0
Ditto (8 ")	11 0	4 13 0
Liq. Chlorodyni (Original and only Genuine) Preparation	½ lb. 2/6 each		
Ditto ditto	¼ lb. 4/6 "		
Ditto ditto	1 lb. 8/- "		
Winchester Quarts (6 lb.)	7/6 per lb., bottles free.		
Towle's Antibilious Pills	1 1½	0 8 6
Ditto	2 9	1 3 3
Towle's Chlorodyne Lozenges	0 7½	0 5 8
Ditto Jujubes	1 1½	0 8 0
Ditto in bulk, bottles free, containing	1 lb., 2/9 each.		
Ditto ditto	1 lb. 10 oz., 4/6 "		
Ditto ditto	4 lb., 10/- "		
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Thornton's Celebrated Toilet Cream	1 0	0 8
Ditto ditto	1 6	0 14
Ditto ditto	2 6	1 4 0
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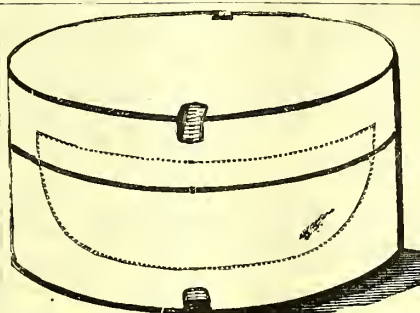
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THE POLISHING TABLET (Unsurpassed). AWARDED GOLD MEDAL.

Cleans with a Brilliant Polish Brass, Copper, Silver, Gold, White and other Metal, Electroware, Glassware, and other domestic articles. For Restaurants, Hotels, Bars, and Bicyclists.

TESTIMONIAL FROM A LADY.—“Your ‘PYN-KA’ Sample is the best I have tried, and we shall use no other cleaning preparation in our house. It will, I am convinced, supersede all other Polishing Pastes.”

For Wholesale Terms apply to
the Sole Vendors—

THE PYN-KA SYNDICATE, LIMITED, 41 LORD ST., LIVERPOOL.

A "STORES" CAUGHT!

Mr. JUSTICE STIRLING.—October 30, 1891.

KEATING v. KIBBLE & CO.

THE Defendants are Proprietors of large Stores at Deptford, and when asked for "Keating's Powder," sold by their shopmen an article not made by me. The Defendants denied that this was done with their knowledge, and this may be conceded, but it cost them over £40, although in this instance I pressed my Solicitors to be as considerate to them as possible. The Court ordered the Defendants to pay the whole costs of the action, and issued an injunction restraining them from offering for sale any preparation other than that prepared by Thomas Keating under the name of "Keating's Insect Powder."

IMPORTANT NOTICE.

12 BRIDE LANE, LONDON, E.C., *March 15, 1892.*

WHEREAS I have reason to believe that certain persons have sold to Customers Packets of what they represent to be KEATING'S INSECT POWDER, which Powder has not been manufactured by me, I HEREBY GIVE NOTICE that I shall institute Legal Proceedings against persons found to be improperly selling any but Keating's Insect Powder to customers asking for it, which action renders them liable to very heavy penalties.

THOMAS KEATING.

A CHEMIST.—HEAVY DAMAGES.

In the High Court of Justice—Chancery Division. Mr. JUSTICE NORTH—October 26, 1886.

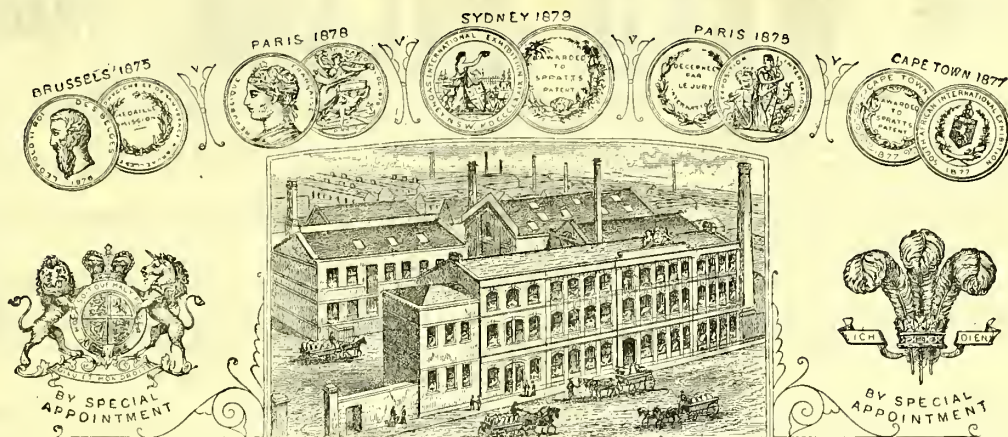
KEATING v. POLL.

IT WAS ORDERED—

That the Defendant be perpetually restrained from stating or causing to be stated that Keating's Persian Insect Destroying Powder contains **any substance poisonous to animals or human beings**, or from making any statement to the effect that such Powder is dangerous to animals or human beings.

IT WAS FURTHER ORDERED—

That the Defendant, William Sheppard Poll, do pay to the Plaintiffs their costs of this action.

TELEPHONE NUMBER
4688.TELEGRAMS,
"SPRATTS LONDON."

MEMO FROM
SPRATT'S PATENT LIMITED
 MANUFACTURERS

Henry Street, *BERMONDSEY ST.* LONDON, August 6th, 1892.
 S.E.

POULTRY AND GAME REARING.

Gentlemen,

Kindly draw your customers' attention to the fact that we now manufacture our Game Meal of three different Grades—
 Fine, Medium, and Coarse.

We have also introduced a

CHICKEN MEAL,

specially for rearing Chicks from the Shell.

It is on the same successful lines as our Poultry Meal, being, like it, a Cooked Food.

Write for Samples of all our articles, so much in demand just now for Rearing.

Yours faithfully,

SPRATTS PATENT LIMITED.

TO THE WEED KILLER TRADE.

For destroying Weeds, Moss, &c., on Garden Walks, Carriage Drives, Roads, &c.

Special advantages which the sale of the "Acme" Weed Killer affords the Trade.

1. The "Acme" Weed Killer is used in the gardens and on the estates of the Gentry everywhere, and by Corporations and Burial Boards in Parks, Cemeteries, &c.
2. Our Retail Prices are such as will induce a ready sale, and we make no charge for 1 and 2 gallon tins.
3. We pay carriage on six 1-gall. tins, or on four 2-gall. tins, and on 10 galls. and upwards, in drums and casks, to any Station or Port in Great Britain.
4. Drums and casks are charged at cost price. Full price allowed when returned.

Trade and Export Terms on application.

RETAIL PRICES.—In 1 and 2 gallon tins, 2/- per gallon (tins included); in 5-gallon drums, 1/6 per gallon; 10, 15, and 20 gallons, 1/4 per gallon; in 40-gallon casks, 1/2½ per gallon.

TESTIMONIALS received from Mr. HEAD, Crystal Palace; Mr. IRWIN LYNCH, Cambridge Botanic Gardens; and others THE "ACME" WEED KILLER, FOR CHEAPNESS & EFFICIENCY, HAS WON FOR ITSELF A NAME FAR ABOVE ALL OTHERS.

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Diuretic, Fever, Physic, Worm, Quinine
Tonic Balls (Registered 81,231).

QUOTATIONS & SAMPLES FREE ON APPLICATION.

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Correspondence invited. Chemists would do well to write us before stocking any Disinfectants.

HENRY ELLISON, F.C.S., THE DISINFECTANTS CHEMICAL WORKS, CLECKHEATON, YORKS.



LONDON, 1884

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ESTABLISHED 1873.

BEFORE ORDERING ELSEWHERE

WRITE FOR OUR NEW SEASON'S PRICE LIST OF



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POWDERS, ACIDS, FLUIDS, SOAPS, &c.

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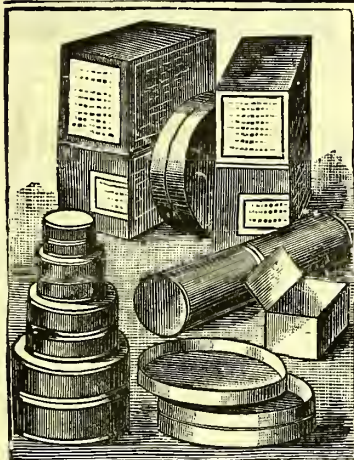
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“Gentlemen,—The Sticky Fly Papers are a great success, and are the best out.—Yours truly,

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Makers of best class of Violet Powder Boxes, and high-class goods of every description for Perfumery, &c.

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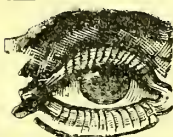
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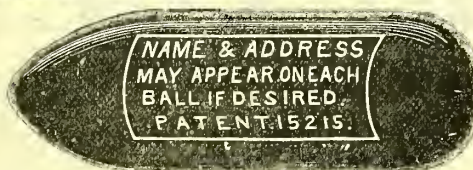
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Neat Designs, Punctuality, and Price can compete successfully against any house in the Trade.

REDUCTION IN PRICES. THE DURAPLASTIC COATED HORSE BALL.

Elegant Veterinary
Pharmacy.



Elegant Veterinary
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FLETCHER'S PATENT.

No. 4.—**Alterative Balls**, 2/ per doz.
Per gross
R Aloes Barb. 1½ dram 20/
Antim. Tart. 1 dram
Saponis 2 drams
Mass. Commun. Q.S.

No. 22.—**Anodyne Balls**, 4/6 per doz.
R Pulv. Opil. 1 dram 45/
Oblora. Hydrat. .. 1 dram
Ammon. Carb. 2 drams
Mass. Commun. Q.S.

No. 5.—**Astringent Balls**, 2/ per doz.
R Ext. Catechu 1 dram 20/
Pulv. Cinnamomi .. 1 dram
Mass. Commun. Q.S.

No. 12.—**Condition Balls**, 2/ per doz.
R Aloes Barb. 1½ dram 20/
Antim. Tart. ½ dram
Potass. Nit. ½ dram
Antim. Sulph. 1 dram
Pulv. Resinæ ½ dram
„ Pip. Cayenne .. 1 scruple
„ Gentian. 1 dram
Sapo. Mollis 1 dram
Tberiacæ, Q.S.

No. 23.—**Condition Balls**, 2/ per doz.
Formula as No. 12. Aloes omitted. 20/

No. 6.—**Cordial Balls**, 2/ per doz.
R Pulv. Zingib. 3 drams 20/
„ Gentian. 3 drams
Tberiacæ, Q.S.

No. 7.—**Cough Balls**, 2/ per doz.
R Aloes Barb. 1 dram 20/
Pulv. Digitalis ½ dram
Potass. Nit. 2 drams
Mass. Commun. Q.S.

No. 16.—**Cough Balls**, 2/ per doz.
R Ext. Belladon. ½ dram 20/
Aloes Barb. 1 dram
Potass. Nit. 2 drams
Mass. Commun. Q.S.

No. 17.—**Cough Balls**, 2/ per doz.
R Ext. Belladon. ½ dram 20/
Camphoræ ½ dram
Pulv. Digitalis ½ dram
Potass. Nit. 2 drams
Mass. Commun. Q.S.

No. 21.—**Cough Balls (Chlorodyne)**
3/3 per doz.
R Chlorodynum 2 drams 33/
Ext. Belladonnæ .. ½ dram
Camphoræ ½ dram
Mass. Commun. Q.S.

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I have much pleasure in certifying that I have used Wyleys & Co.'s Patent Duraplastic Horse Balls for some considerable time. I have found them universally efficacious, pleasant to administer, quick in action, and in every way preferable to the old-fashioned paper-covered bolus of our forefathers.

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Stratford-on-Avon.

Sirs,—I can testify to the thorough therapeutic action of your patent Duraplastic Balls, and I prefer them to the old-fashioned balls on account of their easiness to deliver to the patient, and also of their remaining of the proper consistency, which I consider most beneficial.

I am, Sirs, yours truly,

JNO. JAS. CROWHURST, M.R.C.V.S.L.

Hertford Street, Coventry.

Dear Sirs,—I think the Duraplastic Horse Balls a very good invention. They save no end of trouble, and are always clean, keep well, and act satisfactorily. The Physic Balls I find very reliable. You asked me some time ago about some Physic Balls, and as I have not had occasion to blame any I have used for non-acting, I thought I would just mention the fact.

Yours faithfully,

WM. DALE, M.R.C.V.S.

From T. Blakeway & Son,

Veterinary Surgeons, Stourbridge.

Dear Sirs,—We should be obliged if you would kindly forward us at your earliest convenience five gross of your Patent Duraplastic Physic Balls. The coating of these balls we consider a very elegant preparation, and from its smoothness, coupled with the shape in which the balls themselves are made up, we find them particularly easy of administration, and the chances of their being coughed back are reduced to a minimum.

Faithfully yours,

JAMES BLAKEWAY.

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Gentlemen,—I have been using your Duraplastic Horse Balls for several months, and am very pleased with them. I find that to a single-handed practitioner they are invaluable.

Yours truly,

HARVEY COLLETT, M.R.C.V.S.

No. 8.—**Diuretic Balls**, 1/9 doz.
Per gross.
R Pulv. Resin. 2½ drams 18/
Potass. Nit. 2½ drams
Sapo. Q.S.

9.—**Fever Balls**, 2/ doz.
R Antim. Tart. ½ dram 20/
Camphoræ ½ dram
Potass. Nit. 2 drams
Mass. Commun. Q.S.

No. 1.—**Physic Balls**, 2/ doz.
Aloes Barb. 4 drams 20/

No. 2.—**Physic Balls**, 2/6 doz.
Aloes Barb. 5 drams 25/

No. 3.—**Physic Balls**, 2/9 doz.
Aloes Barb. 6 drams 27

No. 18.—**Physic Balls**, 3/ doz.
Aloes Barb. 7 drams 30/

No. 19.—**Physic Balls**, 3/6 doz.
Aloes Barb. 8 drams 36/

No. 15.—**Stimulating Balls**, 2/ doz.
R Ammon. Carb. 2 drams 20/
Aloes Barb. 1 dram
Pulv. Gentian. 2 drams
„ Zingib. 1 dram
Camphoræ ½ dram
Tberiacæ, Q.S.

No. 24.—**Stimulating Balls**, 2/ doz.
Formula as No. 15. Aloes omitted. 20/

No. 10.—**Tonic Balls**, 2/ doz.
R Ferri Sulph. Pnr. .. 1½ dram 20/
Pulv. Zingib. 1½ dram
Ext. Gentian. 2 drams
Mass. Commun. Q.S.

No. 11.—**Tonic Balls**, 1/9 doz.
R Cupri Sulph. 1 dram 18/
Pulv. Zingib. 1 dram
Mass. Commun. Q.S.

No. 20.—**Tonic Balls (Quinine)**,
2/9 doz.

R Quinina Sulph. 1 scr. 27/
Ferri Sulph. Pur. .. 1½ dram
Pulv. Zingib. 1½ dram
Ext. Gentian. 2 drams
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No. 13.—**Worm Balls**, 2/6 doz.
R Calomel 2 scr. 25/
Aloes Barb. 3 drams
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No. 14.—**Worm Balls**, 5/ doz.
R Aloes Barb. 2 drams 50/
Ferri Sulph. 2 drams
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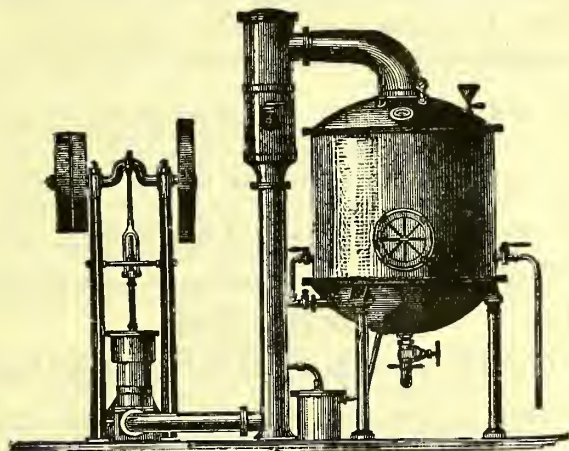
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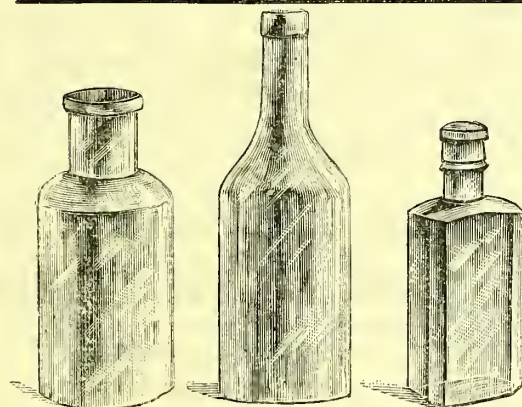
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For Cyclists, Travellers, Invalids, &c., very taking accessories; they interfere with no other lives. FLUIDE-COCA is miscible with wine
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Used and recommended by Miss Ellen Terry, Mr. Henry Irving, Mr. Sims Reeves, and Mr. M. A. Holbein.

Fluide-Coca, in oval flasks, 2s., 3s. 6d., and 10s. 6d. Cucca-Chocolate in boxes, 1s., 2s. 6d., and 10s. 6d.

Imported and Standardised by **HENSON & CO., BEULAH HILL, S.E.****ESCHMANN BROS. & WALSH,**

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SOFT SILK FLEXIBLE CATHETER, GUARANTEED WITH WOVEN EYES.

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